

Bosch Recommended Check/Replace Intervals

Many vehicle manufacturers do not provide recommended check/replacement intervals for oxygen sensors, because it is hard to predict when an oxygen sensor will fail.

OEM oxygen sensor manufacturers, such as Bosch, work hard to ensure that oxygen sensors last as long as possible. The latest designs can last over 100,000 miles under laboratory bench-testing conditions! But out on the road, sensors are subject to very difficult conditions which can cause sensors to fail earlier than they do under laboratory conditions.

For example, oxygen sensors can fail when the sensor's ceramic element is exposed to certain types of silicone compounds or when an oil-burning engine leads to the sensor becoming oil-fouled. Also, a small amount of poorly refined gasoline can kill an oxygen sensor, as can the use of some over-the-counter fuel additives which are not "oxygen sensor safe."

These failures can occur either: 1) instantaneously at the time the contaminant contacts the oxygen sensor, causing a dead (totally nonfunctional) sensor, or 2) gradually over a period of time. Gradual deterioration results in a "slow" sensor which does not react as quickly as it should, thus causing the catalytic converter to perform less efficiently. This can lead to premature failure of the catalytic converter, which is an expensive item to replace. Under conditions of gradual deterioration, "slow" sensors eventually become "dead" sensors.

"Slow" PRE-OBII oxygen sensors will cause a drop in fuel economy of 10-15% (costing the average driver about \$100 per year in extra fuel costs), while also causing excessive exhaust emissions (air pollution). Poor driveability (hesitating or surging) may also result in some cases.

Unfortunately, the symptoms of a "slow" or even "dead" oxygen sensor are not always obvious to the vehicle owner, unless the vehicle fails an emissions test, a decline in fuel economy is noticed, or if driveability problems occur.

Furthermore, while a "dead" sensor can be detected by the do-it-yourselfer with a relatively inexpensive digital volt-ohmmeter, a "slow" sensor can only be diagnosed by a more expensive oscilloscope or scope meter. Thus, the do-it-yourselfer will probably not be able to spot an oxygen sensor problem until it is too late, and the catalytic converter is already well on its way to failure.

As part of a sensible preventive maintenance program, we recommend that either:

- 1) oxygen sensors be checked on a lab scope or scope meter by a professional automotive technician at intervals specified in this catalog, or
- 2) oxygen sensors be replaced by the do-it-yourselfer at the intervals specified in this catalog.

The "check/replace" intervals published in this catalog are not intervals specified by the vehicle manufacturer, but are instead recommendations based on our experience and knowledge of oxygen sensor technology.

One-wire and two-wire "unheated" type oxygen sensors should be checked or replaced every 30,000-50,000 miles. These sensors rely solely on hot exhaust gas to heat up to operating temperature, and therefore are designed to allow a large volume of exhaust gas to make contact with the active ceramic element. Therefore, these sensors are exposed to contamination, especially the "wide-slot" varieties found on Chrysler, Ford, and General Motors vehicles.

"Heated" type oxygen sensors have a built-in heater which heats the sensors up to operating temperature. Therefore, much less exhaust gas needs to contact the ceramic element, making these sensors less prone to contamination. "Heated" type sensors can also be located further downstream (closer to the catalytic converter), which increases their life expectancy by reducing thermal shock. In addition, the latest versions feature improved ceramic elements which are more resistant to silicone, oil, and lead contamination. "Heated" type oxygen sensors should be checked or replaced every 60,000-100,000 miles.



Oxygen Sensors

Technical Information

Can Use Possible Substitutions (Footnote # 71):

Sensors in each column are identical except for the length of the wiring harness. The sensor with the longer wiring harness can be used to replace the sensor with the shorter wiring harness.

Part No.	Length		Can Use 1	Length		Can Use 2	Length		Can Use 3	Length	
	in.	mm		in	mm		in	mm		in	mm
12022	21.7	550	12023	25.4	645						
12043	38.5	978	12019	43.7	1110						
12052	17.7	450	12053	30.1	765						
12054	22.0	560	12203	39.8	1010						
12102	11.8	300	12114	13.4	340	12112	20.3	515			
12114	13.4	340	12112	20.3	515						
13008	19.7	500	13058	28.7	730						
13010	11.4	290	15701	15.0	381						
13012	25.2	640	13047	28.7	730						
13019	38.2	970	13957	47.6	1210						
13026	14.7	374	15637	32.7	830						
13029	21.6	549	15503	27.6	700						
13034	66.1	1680	13119	66.1	1680						
13045	20.5	520	13038	24.0	610						
13047	28.7	730	13011	36.3	922						
13053	8.7	220	13022	13.9	354						
13056	15.0	380	13489	27.6	700						
13058	28.7	730	13011	36.3	922						
13059	61.8	1570	13049	69.3	1760						
13060	8.9	225	13389	9.4	238						
13068	24.8	630	13109	37.0	940						
13095	17.9	455	13136	18.5	470						
13100	18.1	460	13399	22.1	562						
13109	37.0	940	13108	55.7	1415						
13111	50.4	1280	13450	67.3	1710	13483	55.0	1397			
13120	34.6	880	13301	44.9	1140						
13122	11.9	302	13100	18.1	460	13399	22.1	562			
13132	11.8	300	13695	15.4	390						
13134	11.8	299	13139	13.9	354						
13136	18.5	470	13354	20.9	530						
13153	21.9	555	13155	35.9	911						
13164	25.6	649	15208	29.9	760						
13165	22.8	580	13112	39.0	990						
13178	16.9	430	13694	21.7	552						
13184	22.9	582	13974	24.6	625						
13194	16.1	410	13032	19.3	490						
13198	14.6	370	13200	20.5	520						
13224	17.7	450	13091	22.4	570						
13226	35.8	910	13257	50.0	1270						
13231	21.3	540	13108	55.7	1415						
13242	31.1	790	13228	36.6	930						
13245	49.6	1260	13299	72.0	1829						
13249	18.5	470	13007	22.4	570						
13254	18.3	465	15479	23.4	595						
13255	7.1	180	13250	17.7	450						
13256	17.3	440	13637	19.7	500						
13258	22.8	579	13071	30.7	780						
13264	32.7	830	13226	35.8	910						
13271	11.8	300	13264	32.7	830						
13272	12.2	310	13280	18.0	457						
13287	13.0	330	13579	19.3	490						
13287	13.0	330	15266	18.1	460						
13311	14.4	365	13420	12.2	310						
13311	14.4	365	13224	17.7	450						
13315	34.8	885	13413	50.8	1290						
13316	10.8	275	13272	12.2	310						
13361	29.5	750	15044	36.4	925						
13372	7.9	200	15708	11.1	281						
13394	16.5	420	15076	21.7	550						
13444	16.5	420	13029	21.6	549						
13474	14.6	372	13055	29.3	745						

Technical Information

Oxygen Sensors

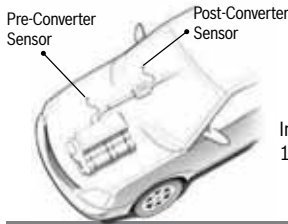
Part No.	Length		Can Use 1	Length		Can Use 2	Length		Can Use 3	Length	
	in.	mm		in.	mm		in.	mm		in.	mm
13482	8.7	220	13416	8.7	220						
13483	55.0	1397	13450	67.3	1710						
13500	15.0	380	13766	18.5	470						
13571	10.8	275	13844	12.4	315						
13574	22.4	568	13892	23.6	600						
13579	19.3	490	15327	19.7	500						
13581	31.6	803	13879	37.4	950						
13637	19.7	500	15391	21.1	535						
13659	7.7	195	13271	11.8	300						
13694	21.7	552	13682	43.3	1100						
13728	12.8	325	15487	12.8	325						
13766	18.5	470	13035	23.6	599						
13780	12.2	310	13694	21.7	552						
13787	13.0	330	13694	21.7	552						
13832	10.4	265	13460	12.6	320						
13833	33.3	845	13425	38.8	985						
13863	19.7	500	13563	26.4	670						
13870	9.4	240	13887	14.2	360						
13872	40.9	1040	15549	48.8	1240						
13886	14.2	360	15322	22.4	570						
13887	14.2	360	15265	16.9	430						
13892	23.6	600	13838	29.7	755						
13942	10.8	274	13950	15.4	390	13953	19.1	485			
13950	15.4	390	13953	19.1	485						
13959	21.5	545	13184	22.9	582						
13960	25.2	640	13838	29.7	755						
13970	9.8	250	13886	14.2	360						
13974	24.6	625	15477	25.2	640						
15028	17.3	440	13538	19.7	500						
15028	17.3	440	15032	19.7	500						
15040	13.8	350	13765	13.8	350						
15044	36.4	925	13872	40.9	1040						
15278	12.2	310	15327	19.7	500						
15280	13.2	335	13694	21.7	552						
15323	20.9	530	13574	22.4	568						
15327	19.7	500	15323	20.9	530						
15391	21.1	535	13184	22.9	582						
15459	23.0	585	15615	24.3	618						
15461	24.4	620	15583	26.0	660	13412	27.8	705			
15477	25.2	640	15484	31.1	790						
15503	27.6	700	13111	50.4	1280						
15519	10.6	270	15525	10.6	270						
15543	12.2	309	13361	29.5	750						
15544	42.1	1070	13111	50.4	1280						
15564	12.4	315	15284	14.8	375						
15566	12.8	325	15487	12.8	325						
15582	18.1	461	15462	26.0	660						
15583	24.4	621	13412	27.8	705						
15583	24.4	620	15594	26.3	675						
15591	15.7	400	13407	25.0	635						
15596	27.6	700	15600	27.6	700						
15604	24.4	620	15615	24.4	620						
15623	19.7	500	15486	20.1	510						
15634	9.8	250	13765	13.8	350						
15705	11.8	300	13122	11.8	300	13100	18.1	460	13399	22.0	560
15710	13.9	352	13377	14.6	370						
15716	10.6	270	15717	15.4	392	15718	18.9	481			
15717	15.4	392	15718	18.9	481						
15718	18.9	481	15719	21.8	553						

Term	Definition
Air/Fuel Ratio	In combustion, the amounts (in mass) of air and fuel involved in the combustion. For gasoline engines, the ideal Air/Fuel ratio is 14.7:1.
Air/Fuel (A/F) Sensor	See Wideband A/F Sensor. The term used by some sensor and vehicle manufacturers to differentiate wideband oxygen sensors from switching oxygen sensors.
Closed Loop Operation	Closed loop operation for an engine occurs when the ECM is receiving inputs from all sensors. In closed loop operation, the ECM is able to vary the cycle time for the injectors based on the inputs of throttle position, air mass, and the amount of free oxygen in the exhaust stream. Typically, oxygen sensors are the last sensors to become operational, since they must be heated to an operating temperature of at least 350° C. Until the oxygen sensors become operational, the ECM uses presets to determine the injector cycle times.
Control Sensor	Same as pre-catalyst sensor.
Diagnostic Sensor	Same as post-catalyst sensor.
Downstream Sensor	Same as post-catalyst sensor.
ECM or ECU	Engine Control Module or Electronic Control Unit; the computer that receives sensor input and controls injector timing.
Emissions–California	Vehicles certified for sale in California have an underhood emissions label stating that the vehicle conforms to U.S. EPA regulations and to California regulations applicable to the vehicle model year. Several states in the northeast, including Maine, Massachusetts, New York, and Vermont have adopted the California standards. Therefore, if there is a difference in oxygen sensor part numbers for California (Calif.) vehicles in this catalog, that difference may also apply to vehicles sold in these northeastern states.
Emissions–Federal	Vehicles with “49-State Emissions” certification have an underhood emissions label stating that the vehicle conforms to U.S. EPA regulations applicable to the vehicle model year. The label also states that the vehicle does not meet the emissions requirements for California or, “a state that has adopted California standards.”
Heated Sensor	A three or four wire sensor that includes a resistive element to bring the oxygen sensor to its operating temperature much more quickly than can be achieved using the hot exhaust gases alone.
Lambda (-I)	The ratio of the current (instantaneous) Air/Fuel ratio to the ideal (14.7:1) Air/Fuel ratio. If the engine is running rich, $\lambda < 1$. If the engine is running lean, $\lambda > 1$.
Monitor Sensor	Same as post-catalyst sensor.
OE-Fit Sensor	A sensor that is the original equipment sensor or one that has been engineered to fit multiple applications with minimal adjustment by the installer.
Oxygen Sensor	A device that generates a variable voltage or alters a reference voltage depending on the amount of free oxygen in the engine exhaust.
Planar Sensor	An oxygen sensor in which the ceramic sensing element with integrated heater is a thin, flat sandwich of zirconia ceramic and printed metallic and insulating layers. These layers are fused into a single piece at very high temperature in a kiln.

Glossary of Terms

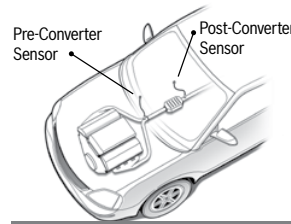
Term	Definition
Post-Catalyst Sensor	An oxygen sensor mounted in the exhaust stream after the catalytic converter. The output from this sensor is used by the ECM primarily to ensure that the catalytic converter is performing within specifications.
Pre-Catalyst Sensor	An oxygen sensor mounted in the exhaust stream before the catalytic converter. The output of this sensor is used by the ECM to vary injector timing.
Reference Air	Air inside the oxygen sensor that provides a “normal” oxygen reference, in comparison to the amount of oxygen in the exhaust stream.
Switching Sensor	For zirconia types, the voltage output from the sensor changes very rapidly from 800mv to 300mv as the exhaust mixture changes from rich (no free oxygen) to lean (free oxygen). This rapid change occurs at the ideal Air/Fuel mixture of 14.7:1. The opposite occurs as the exhaust mixture changes from lean to rich. For titania types, the resistance across the sensing element changes very rapidly at the ideal Air/Fuel mixture. A voltage is applied by the ECM, and the voltage drop across the sensing element is measured.
Thimble Sensor	An oxygen sensor in which the ceramic sensing element is shaped like a thimble, with a hollow space inside for the reference air and heater. The ceramic can be either zirconia or titania. Nearly all oxygen sensors prior to 1998 were thimble designs.
Titania Sensor	The ceramic sensing element of the oxygen sensor is made of titania dioxide. Resistance across the sensing element changes with the amount of free oxygen in the exhaust gas.
Unheated Sensor	A one or two wire oxygen sensor that depends on the temperature of the exhaust gas to reach an operating temperature of 350° C.
Universal Sensor	An oxygen sensor that typically includes a connector(s) that allows the sensor to utilize the existing OE wire configuration. Universal sensors can often cover a wide range of applications.
Upstream Sensor	Same as pre-catalyst sensor.
Wideband A/F Sensor	An oxygen sensor that produces a precise output signal in proportion to the Air/Fuel ratio. This allows the sensor to accurately measure the oxygen content in the exhaust gas.
Zirconia Sensor	The ceramic sensing element of the oxygen sensor is made of zirconia dioxide. Voltage generated across the sensing element changes with the amount of free oxygen in the exhaust gas.

The illustrations below show several of the most common mounting configurations for oxygen sensors, depending on engine type and alignment. The terms used for each sensor location match the terms used in the Application Guide of our catalog. Check carefully to ensure that you are using the correct sensor for each location. Please note the left side is the drivers side, the right is the passenger side.



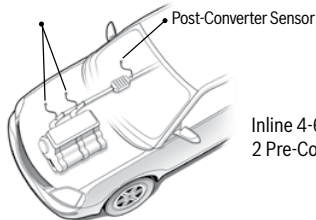
Inline 4-6 Cylinder, Longitudinal Mount
1 Pre-Converter, 1 Post-Converter

Pre-Converter Sensor, Front and Rear Manifold/Exhaust



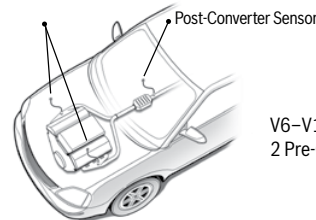
V6-V10, Longitudinal Mount
1 Pre-Converter, 1 Post-Converter

Pre-Converter Sensor, Front and Left Manifold/Exhaust



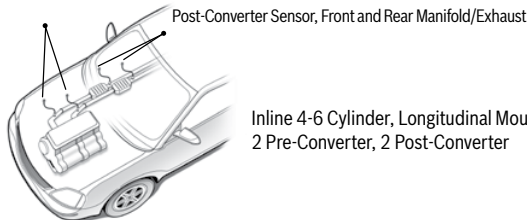
Inline 4-6 Cylinder, Longitudinal Mount
2 Pre-Converter, 1 Post-Converter

Pre-Converter Sensor, Front and Rear Manifold/Exhaust



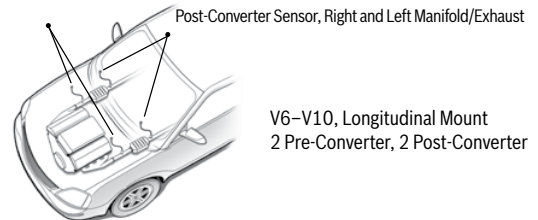
V6-V10, Longitudinal Mount
2 Pre-Converter, 1 Post-Converter

Pre-Converter Sensor, Front and Left Manifold/Exhaust



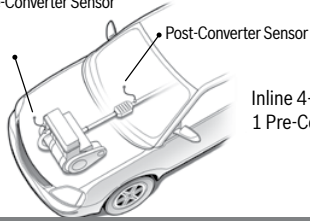
Inline 4-6 Cylinder, Longitudinal Mount
2 Pre-Converter, 2 Post-Converter

Pre-Converter Sensor



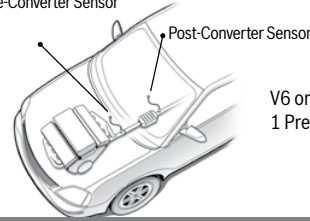
V6-V10, Longitudinal Mount
2 Pre-Converter, 2 Post-Converter

Pre-Converter Sensor



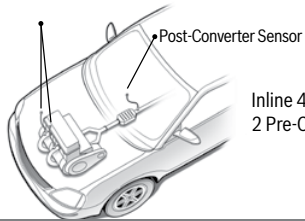
Inline 4-6 Cylinder, Transverse Mount
1 Pre-Converter, 1 Post-Converter

Pre-Converter Sensor, Right and Left Manifold/Exhaust



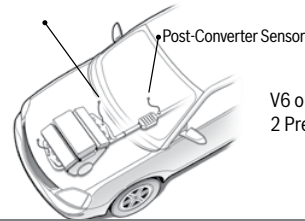
V6 or V8, Transverse Mount
1 Pre-Converter, 1 Post-Converter

Pre-Converter Sensor, Front and Rear Manifold/Exhaust



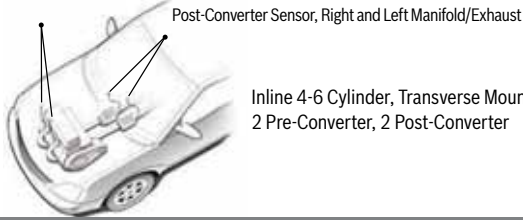
Inline 4-6 Cylinder, Transverse Mount
2 Pre-Converter, 1 Post-Converter

Pre-Converter Sensor, Right and Left Manifold/Exhaust



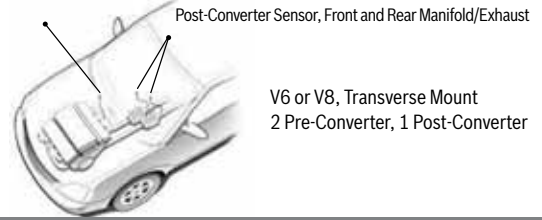
V6 or V8, Transverse Mount
2 Pre-Converter, 1 Post-Converter

Pre-Converter Sensor, Front and Rear Manifold/Exhaust



Inline 4-6 Cylinder, Transverse Mount
2 Pre-Converter, 2 Post-Converter

Pre-Converter Sensor, Right and Left Manifold/Exhaust



V6 or V8, Transverse Mount
2 Pre-Converter, 1 Post-Converter

Pre-Converter Sensor, Front and Rear Manifold/Exhaust

Product Information
Oxygen Sensors

New Items	New Items	New Items	New Items	Sell Out	Reorder	Sell Out	Reorder	Sell Out	Reorder
13113	15387	15788	17124	12016	12061	13716	13937	15453	13822
13114	15388	15790	17126	12017	12053	13719	15825	15455	13822
13437	15449	15792	17163	12030	12046	13728	15487	15457	15583
13610	15463	15793	17177	12052	12053	13750	13753	15459	15615
13621	15468	15794	17258	12107	12108	13758	15295	15461	15583
13688	15502	15795	17260	12204	13191	13759	13041	15469	13714
13715	15532	15796	17262	13033	13500	13765	15040	15472	13680
13744	15533	15798	17287	13040	15634	13776	13937	15474	13534
13763	15539	15799	17296	13045	13038	13778	13441	15483	13184
13777	15542	15800	17298	13084	13924	13786	15284	15485	13355
13781	15555	15801	17313	13086	13539	13795	13801	15488	13355
13937	15574	15806	17315	13113	15703	13803	13801	15499	13687
13954	15584	15810	17318	13123	13100	13827	13420	15500	12028
13958	15586	15811	17320	13131	15719	13833	13425	15507	13687
15113	15636	15812	17322	13133	15717	13845	13745	15509	13687
15114	15640	15815	17324	13153	15704	13865	13581	15513	13687
15116	15641	15816	17326	13154	13104	13873	15290	15516	13412
15141	15642	15817	17328	13168	13104	13895	13581	15519	15525
15142	15649	15818	17330	13177	15719	13966	13256	15520	15369
15199	15670	15822	17332	13205	13322	13975	13938	15528	15665
15200	15671	15823	17334	13206	13957	13976	15479	15544	13111
15201	15672	15824	17336	13221	13420	13987	13104	15546	13193
15214	15674	15825	17344	13237	13420	13992	15244	15547	13178
15227	15677	15932	17346	13239	13176	13995	13540	15548	15564
15232	15683	15958	17348	13241	13007	15007	15511	15550	15543
15233	15684	15990	17349	13266	13268	15029	15028	15551	15280
15236	15685	15992	17403	13277	15701	15038	15634	15553	15280
15240	15686	15994	17430	13293	15711	15077	13441	15554	13455
15241	15687	16495	17432	13295	13051	15081	15400	15557	15561
15248	15688	16575		13316	13272	15091	15487	15560	15290
15251	15689	16611		13317	15704	15096	15487	15563	13178
15252	15690	16613		13332	13100	15102	13420	15565	13455
15253	15691	16663		13341	13340	15135	15156	15566	15487
15254	15692	16665		13368	13289	15162	15284	15567	13355
15260	15695	16667		13372	15708	15166	15165	15575	13371
15264	15696	16669		13386	13791	15186	15717	15577	13822
15268	15697	16797		13389	13539	15213	13353	15579	15514
15286	15698	16826		13400	13417	15221	15583	15585	15515
15293	15699	16828		13479	13450	15226	15290	15587	15360
15296	15723	16837		13496	13111	15231	13355	15594	15583
15318	15724	16839		13513	13071	15238	13619	15595	15462
15320	15752	16849		13518	13355	15262	13287	15596	15600
15334	15753	16851		13535	15717	15279	13193	15598	15583
15337	15755	16861		13537	13056	15288	13035	15604	15615
15341	15756	16864		13541	15717	15291	15290	15616	13720
15346	15758	16887		13554	13354	15301	13718	15618	15087
15364	15759	16889		13563	13551	15302	13672	15619	13355
15367	15761	16891		13569	15716	15303	13610	15623	15486
15368	15762	16893		13570	15716	15305	13664	15625	15635
15370	15763	16919		13575	13104	15307	13610	15639	13361
15371	15764	16958		13585	13574	15324	15314	15660	13751
15373	15765	17005		13586	15244	15328	13289	15662	15659
15374	15767	17022		13600	15716	15336	13469	15679	13394
15375	15768	17024		13602	13218	15356	15514	15879	13273
15376	15772	17066		13612	15719	15361	15514	15892	13361
15379	15774	17082		13623	13353	15372	17264	15908	13256
15380	15776	17084		13624	13340	15390	13075	15939	15949
15381	15777	17094		13633	13619	15392	13256	15952	15948
15382	15782	17112		13655	13256	15395	15394	15970	13619
15383	15783	17114		13665	13687	15397	13680	15976	15290
15384	15784	17115		13669	13670	15399	13680	15978	15290
15386	15786	17117		13671	13610	15404	13075	15980	15290
				13677	15948	15411	13256	16039	16121
				13684	13377	15412	13256	16119	16121
				13691	13687	15421	13355	16469	16363
				13705	13680	15422	13355	17033	17137
				13708	15476	15425	13737	17038	15667
				13711	13610	15434	15543	17134	17036
				13712	13937	15440	13937	17185	17264
				13713	15825	15451	13412		

UPC Cross Reference

Oxygen Sensors

						Bosch						
						Part No.	(SS to)	Type	Wires	Length (in.)	Check/Replace Interval (Miles)	UPC with Check Digit
11027	unheated	1	5.3	50,000	028851110273	13025		wideband a/f	5	16.8	100,000	028851130257
11032	unheated	1	37.4	30,000	028851110327	13026		heated	4	14.7	100,000	028851130264
11047	unheated	1	18.5	30,000	028851110471	13027		heated	4	14.9	100,000	028851130271
11051	unheated	1	19.7	30,000	028851110518	13029		heated	4	21.6	100,000	028851130295
11964	unheated	1	29.3	30,000	028851119641	13030		heated	4	13.8	60,000	028851130301
12002	unheated	1	19.8	50,000	028851120029	13031		heated	3	18.5	100,000	028851130318
12006	titania	1	6.7	30,000	028851120067	13032		heated	3	19.3	60,000	028851130325
12007	titania	2	19.7	30,000	028851120074	13033	13500	heated	4	12.3	100,000	028851130332
12008	titania	3	11.0	82,500	028851120081	13034		heated	3	66.1	60,000	028851130349
12009	titania	3	10.8	82,500	028851120098	13035		heated	4	24.8	100,000	028851130356
12013	unheated	1	12.6	30,000	028851120135	13037		heated	4	61.8	60,000	028851130370
12014	unheated	1	14.6	30,000	028851120142	13038		heated	4	24.0	60,000	028851130387
12016 (12061)	unheated	1	21.1	50,000	028851120166	13039		heated	3	14.2	100,000	028851130394
12017 (12053)	unheated	1	25.5	50,000	028851120173	13040	15634	heated	4	9.6	100,000	028851130400
12019	unheated	2	43.7	50,000	028851120197	13041		heated	4	24.8	100,000	028851130417
12022	unheated	2	21.7	50,000	028851120227	13043		unheated	1	5.5	60,000	028851130431
12023	unheated	2	25.4	50,000	028851120234	13045 (13038)		heated	4	20.5	60,000	028851130455
12028	unheated	2	12.6	30,000	028851120289	13046		heated	3	19.9	60,000	028851130462
12030 12046	unheated	1	6.9	50,000	028851120302	13047		heated	3	28.7	60,000	028851130479
12031	unheated	1	5.3	50,000	028851120319	13048		heated	3	25.4	60,000	028851130486
12035	unheated	2	43.3	50,000	028851120357	13049		heated	3	69.3	60,000	028851130493
12038	unheated	1	18.5	50,000	028851120388	13050		unheated	1	5.5	60,000	028851130509
12039	unheated	1	18.9	50,000	028851120395	13051		heated	4	13.7	100,000	028851130516
12040	unheated	1	19.1	50,000	028851120401	13052		heated	4	59.1	60,000	028851130523
12041	unheated	2	17.3	50,000	028851120418	13053		unheated	1	8.7	100,000	028851130530
12043	unheated	2	38.5	50,000	028851120432	13054		heated	3	46.1	60,000	028851130547
12046	unheated	1	8.3	50,000	028851120463	13055		heated	4	29.3	100,000	028851130554
12050	unheated	1	18.9	50,000	028851120500	13056		heated	4	15.0	100,000	028851130561
12051	unheated	1	20.1	50,000	028851120517	13058		heated	3	28.7	60,000	028851130585
12052 (12053)	unheated	1	17.7	50,000	028851120524	13059		heated	3	61.8	60,000	028851130592
12053	unheated	1	30.1	50,000	028851120531	13060		heated	4	8.9	100,000	028851130608
12054	unheated	1	22.0	50,000	028851120548	13067		heated	4	24.4	60,000	028851130677
12055	unheated	1	18.9	50,000	028851120555	13068		heated	4	24.8	60,000	028851130684
12061	unheated	1	21.3	50,000	028851120616	13071		heated	4	30.7	100,000	028851130714
12100	unheated	2	19.3	50,000	028851121002	13073		heated	4	20.7	100,000	028851130738
12102	unheated	1	11.8	50,000	028851121026	13074		heated	4	12.7	100,000	028851130745
12105	unheated	2	12.6	50,000	028851121057	13075		heated	4	10.3	100,000	028851130752
12106	unheated	2	11.4	50,000	028851121064	13077		heated	3	12.8	60,000	028851130776
12107 12108	unheated	2	11.9	50,000	028851121071	13078		heated	4	47.2	60,000	028851130783
12108	unheated	2	16.1	50,000	028851121088	13081		heated	4	12.6	100,000	028851130813
12109	unheated	2	25.8	50,000	028851121095	13084 13924		heated	3	25.4	60,000	028851130844
12111	unheated	2	18.1	50,000	028851121118	13086 (13539)		heated	4	9.7	100,000	028851130868
12112	unheated	1	20.3	30,000	028851121125	13091		heated	3	22.4	100,000	028851130912
12113	unheated	1	21.9	30,000	028851121132	13093		heated	4	29.3	100,000	028851130936
12114	unheated	1	13.4	30,000	028851121149	13095		heated	4	17.9	100,000	028851130950
12200	unheated	2	23.6	50,000	028851122009	13096		heated	4	21.4	100,000	028851130967
12201	unheated	2	23.7	50,000	028851122016	13100		heated	4	18.1	100,000	028851131001
12202	unheated	2	16.9	50,000	028851122023	13101		heated	3	43.3	60,000	028851131018
12203	unheated	1	39.8	50,000	028851122030	13104		heated	4	11.0	100,000	028851131049
12204 13191	unheated	2	12.4	100,000	028851122047	13108		heated	4	55.7	60,000	028851131087
12205	unheated	2	7.9	50,000	028851122054	13109		heated	4	37.0	60,000	028851131094
12210	unheated	2	7.7	50,000	028851122108	13111		heated	4	50.4	100,000	028851131117
12211	unheated	2	39.0	50,000	028851122115	13112		heated	4	39.0	60,000	028851131124
12909	unheated	1	15.4	30,000	028851129091	13113 15703		heated	4	12.2	100,000	028851131131
12919	unheated	1	6.7	30,000	028851129190	13114					100,000	028851131148
13001	heated	3	36.2	60,000	028851130011	13115		heated	4	24.8	100,000	028851131155
13003	heated	3	20.5	60,000	028851130035	13117		heated	4	15.4	100,000	028851131179
13004	heated	3	16.1	60,000	028851130042	13118		heated	4	24.4	100,000	028851131186
13005	heated	3	34.6	60,000	028851130059	13119		heated	3	66.1	100,000	028851131193
13007	heated	4	22.4	100,000	028851130073	13120		heated	4	34.6	60,000	028851131209
13008	heated	3	19.7	60,000	028851130080	13122		heated	4	11.9	100,000	028851131223
13010	heated	3	11.4	60,000	028851130103	13123 (13100)		heated	4	16.8	100,000	028851131230
13011	heated	3	36.3	60,000	028851130110	13127		heated	4	10.6	100,000	028851131278
13012	heated	3	25.2	60,000	028851130127	13130		heated	4	18.1	100,000	028851131308
13019	heated	3	38.2	60,000	028851130196	13131 15719		heated	4	24.0	100,000	028851131315
13021	titania	3	10.2	100,000	028851130219	13132		heated	4	11.8	100,000	028851131322
13022	unheated	1	13.9	100,000	028851130226	13133 15717		heated	4	15.6	100,000	028851131339



Oxygen Sensors

UPC Cross Reference

						Bosch							
Part No.	(SS to)	Type	Wires	Length (in.)	Check/Replace Interval (Miles)	UPC with Check Digit							
13134		heated	4	11.8	100,000	028851131346	13273		heated	4	16.7	100,000	028851132732
13136		heated	4	18.5	100,000	028851131360	13275		heated	4	11.8	60,000	028851132756
13138		heated	4	14.1	100,000	028851131384	13276		heated	3	9.6	60,000	028851132763
13139		heated	4	13.9	100,000	028851131391	13277	15701	heated	3	12.6	100,000	028851132770
13141		heated	4	16.5	100,000	028851131414	13278		heated	4	21.7	100,000	028851132787
13142		heated	4	23.5	100,000	028851131421	13279		heated	4	31.5	100,000	028851132794
13144		heated	3	12.9	60,000	028851131445	13280		heated	4	18.0	100,000	028851132800
13146		heated	3	29.7	60,000	028851131469	13281		heated	4	31.6	100,000	028851132817
13148		heated	3	14.2	60,000	028851131483	13284		heated	3	13.8	100,000	028851132848
13149		heated	4	12.2	100,000	028851131490	13287		heated	4	13.0	100,000	028851132879
13151		heated	4	11.7	100,000	028851131513	13289		heated	4	19.1	100,000	028851132893
13152		heated	3	17.3	60,000	028851131520	13290		heated	4	65.7	60,000	028851132909
13153	(15704)	heated	4	21.9	100,000	028851131537	13293	15711	heated	4	18.6	100,000	028851132930
13154	13104	heated	4	7.9	100,000	028851131544	13295	(13051)	heated	4	13.7	100,000	028851132954
13155		heated	4	35.9	100,000	028851131551	13299		heated	3	72.0	60,000	028851132992
13156		heated	3	19.9	60,000	028851131568	13300		heated	4	31.5	100,000	028851133005
13160		heated	3	17.0	60,000	028851131605	13301		heated	4	44.9	60,000	028851133012
13164		heated	4	25.6	100,000	028851131643	13302		heated	4	13.9	100,000	028851133029
13165		heated	4	22.8	60,000	028851131650	13306		heated	4	22.8	100,000	028851133067
13168	13104	heated	4	8.2	100,000	028851131681	13308		heated	3	64.2	100,000	028851133081
13176		heated	4	32.9	100,000	028851131766	13309		heated	4	22.6	60,000	028851133098
13177	15719	heated	4	24.1	100,000	028851131773	13311		heated	3	14.4	100,000	028851133111
13178		heated	4	16.9	100,000	028851131780	13312		heated	4	24.9	100,000	028851133128
13181		heated	4	22.8	60,000	028851131810	13313		heated	3	34.6	100,000	028851133135
13184		heated	4	22.9	100,000	028851131841	13314		heated	4	29.5	60,000	028851133142
13190		heated	3	12.9	60,000	028851131902	13315		heated	4	34.8	100,000	028851133159
13191		Unheated	2	15.6	50,000	028851131919	13316	(13272)	heated	4	10.8	100,000	028851133166
13193		heated	4	15.7	100,000	028851131933	13317	15704	heated	4	16.7	100,000	028851133173
13194		heated	3	16.1	60,000	028851131940	13318		heated	4	34.4	100,000	028851133180
13198		heated	4	14.6	100,000	028851131988	13320		heated	4	11.8	100,000	028851133203
13200		heated	4	20.5	100,000	028851132008	13322		heated	4	13.4	100,000	028851133227
13205	(13322)	heated	4	12.7	100,000	028851132053	13326		heated	4	24.0	100,000	028851133265
13206	13957	heated	3	29.1	60,000	028851132060	13327		heated	3	23.0	100,000	028851133272
13211		heated	3	22.8	60,000	028851132114	13329		heated	3	20.9	100,000	028851133296
13216		heated	4	38.2	60,000	028851132169	13330		heated	4	39.4	100,000	028851133302
13218		heated	4	18.1	60,000	028851132183	13332	13100	heated	4	18.1	100,000	028851133326
13221	13420	heated	3	10.8	100,000	028851132213	13338		heated	4	17.1	100,000	028851133388
13224		heated	3	17.7	100,000	028851132244	13340		heated	4	13.4	100,000	028851133401
13226		heated	4	35.8	100,000	028851132268	13341	(13340)	heated	4	13.0	100,000	028851133418
13228		heated	3	36.6	100,000	028851132282	13342		heated	4	8.3	100,000	028851133425
13231		heated	4	21.3	60,000	028851132312	13348		heated	4	31.9	100,000	028851133487
13232		heated	3	19.1	60,000	028851132329	13350		heated	3	24.8	100,000	028851133500
13237	(13420)	heated	3	11.2	100,000	028851132374	13353		heated	4	28.3	100,000	028851133531
13238		heated	4	28.7	60,000	028851132381	13354		heated	4	20.9	100,000	028851133548
13239	(13176)	heated	4	31.0	100,000	028851132398	13355		heated	4	13.4	100,000	028851133555
13241	(13007)	heated	4	16.7	100,000	028851132411	13356		heated	4.0	11.4	100,000	028851133562
13242		heated	3	31.1	100,000	028851132428	13358		heated	4.0	24.8	100,000	028851133586
13245		heated	3	49.6	60,000	028851132459	13361		heated	4	29.5	100,000	028851133616
13246		wideband a/f	5	15.4	100,000	028851132466	13362		heated	3	15.0	100,000	028851133623
13249		heated	4	18.5	100,000	028851132497	13363		heated	4	14.8	100,000	028851133630
13250		heated	3	17.7	100,000	028851132503	13364		heated	3	16.2	100,000	028851133647
13251	obs	heated	3	45.8	60,000	028851132510	13366		heated	4	7.9	100,000	028851133661
13252		titania	3	70.9	60,000	028851132527	13367		heated	4	10.0	100,000	028851133678
13254		heated	4	18.3	100,000	028851132541	13368	(13289)	heated	4	15.9	100,000	028851133685
13255		heated	3	7.1	100,000	028851132558	13370		heated	3	18.7	100,000	028851133708
13256		heated	4	17.3	100,000	028851132565	13371		heated	4	12.4	100,000	028851133715
13257		heated	4	50.0	100,000	028851132572	13372	(15708)	heated	4	7.9	100,000	028851133722
13258		heated	4	22.8	100,000	028851132589	13373		heated	4	19.9	60,000	028851133739
13260		heated	3	25.6	100,000	028851132602	13374		heated	4	39.4	100,000	028851133746
13261		heated	4	34.3	100,000	028851132619	13376		heated	3	35.0	60,000	028851133760
13262		heated	3	14.4	100,000	028851132626	13377		heated	4	14.6	100,000	028851133777
13264		heated	4	32.7	100,000	028851132640	13380		heated	3	73.6	60,000	028851133807
13266	13268	heated	4	28.9	100,000	028851132664	13381		heated	3	34.8	60,000	028851133814
13267		heated	4	22.8	60,000	028851132671	13383		heated	4	11.2	100,000	028851133838
13268		heated	4	28.7	100,000	028851132688	13385		titania	3	17.5	100,000	028851133852
13271		heated	4	11.8	100,000	028851132718	13386	(13791)	titania	3	9.4	100,000	028851133869
13272		heated	4	12.2	100,000	028851132725	13387		titania	3	71.3	100,000	028851133876



Oxygen Sensors

UPC Cross Reference

						Bosch						
						Part No.	(SS to)	Type	Wires	Length (in.)	Check/Replace Interval (Miles)	UPC with Check Digit
13388	titania	4	28.3	100,000	028851133883	13496	(13111)	heated	4	44.9	100,000	028851134965
13389	(13539) heated	4	9.4	100,000	028851133890	13498		heated	4.0	14.6	100,000	028851134989
13391	heated	4.0	8.3	100,000	028851133913	13500		heated	4	15.0	100,000	028851135009
13392	heated	4	8.3	100,000	028851133920	13504		heated	3	26.6	100,000	028851135047
13394	heated	4	16.5	100,000	028851133944	13505		heated	3	29.7	100,000	028851135054
13395	heated	4	16.7	100,000	028851133951	13508		heated	3	19.3	100,000	028851135085
13396	heated	3	28.0	100,000	028851133968	13509		heated	4.0	16.5	100,000	028851135092
13399	heated	4	22.1	100,000	028851133999	13511		Heated	4.0	8.9	100,000	028851135115
13400	13417 heated	4	21.7	100,000	028851134002	13512		wideband a/f	4	14.2	100,000	028851135122
13401	heated	4	20.9	100,000	028851134019	13513	(13071)	heated	4	17.7	100,000	028851135139
13404	heated	4	15.7	100,000	028851134040	13514		heated	4.0		100,000	028851135146
13405	heated	4	13.1	100,000	028851134057	13515		heated	4	38.2	100,000	028851135153
13407	heated	4	25.0	100,000	028851134071	13516		heated	4.0		100,000	028851135160
13408	heated	4	20.1	100,000	028851134088	13517		heated	4	19.9	100,000	028851135177
13410	heated	4	18.5	100,000	028851134101	13518	13355	heated	4	13.0	100,000	028851135184
13412	heated	4	18.1	100,000	028851134125	13519		heated	4	9.4	100,000	028851135191
13413	heated	4	50.8	100,000	028851134132	13520		heated	4	25.2	100,000	028851135207
13416	heated	3	8.7	100,000	028851134163	13522		heated	4	13.8	60,000	028851135221
13417	heated	4	21.7	100,000	028851134170	13523		heated	4	17.9	60,000	028851135238
13418	heated	3	71.5	100,000	028851134187	13524		heated	3	16.1	100,000	028851135245
13420	heated	3	12.2	100,000	028851134200	13525		heated	4	8.1	100,000	028851135252
13421	heated	4	22.5	60,000	028851134217	13527		heated	4.0	31.3	100,000	028851135276
13422	heated	4	12.4	100,000	028851134224	13528		heated	4.0		100,000	028851135283
13423	heated	4	12.2	100,000	028851134231	13529		heated	4	20.5	100,000	028851135290
13425	heated	4	38.8	100,000	028851134255	13531		heated	3	9.8	100,000	028851135313
13427	heated	4	12.2	100,000	028851134279	13532		heated	4	20.9	100,000	028851135320
13428	heated	4	13.8	100,000	028851134286	13534		heated	4	15.4	100,000	028851135344
13429	heated	4	13.6	100,000	028851134293	13535	15717	heated	4		100,000	028851135351
13431	heated	4	17.5	100,000	028851134316	13537	13056	heated	4	13.8	100,000	028851135375
13433	heated	4	7.5	100,000	028851134330	13538		heated	4	19.7	100,000	028851135382
13436	heated	4	36.2	100,000	028851134361	13539		heated	4	12.2	100,000	028851135399
13437	wideband a/f	4	13.4	100,000	028851134378	13540		wideband a/f	4	13.8	100,000	028851135405
13439	heated	4	24.4	100,000	028851134392	13541	15717	heated	4		100,000	028851135412
13441	heated	4	10.6	100,000	028851134415	13544		heated	4	16.7	100,000	028851135443
13444	heated	4	16.5	100,000	028851134446	13547		heated	3	8.7	100,000	028851135474
13445	heated	3	17.7	100,000	028851134453	13548		heated	4	34.6	100,000	028851135481
13446	Heated	4.0	16.9	100,000	028851134460	13549		heated	3	16.5	100,000	028851135498
13447	heated	4	19.8	100,000	028851134477	13550		heated	4	66.9	100,000	028851135504
13448	heated	4	19.7	100,000	028851134484	13551		heated	4	29.1	100,000	028851135511
13450	heated	4	72.6	100,000	028851134507	13552		heated	4	66.9	100,000	028851135528
13453	heated	4	11.4	60,000	028851134538	13554	13354	heated	4	13.8	100,000	028851135542
13455	heated	4	12.3	100,000	028851134552	13556		heated	4	15.7	100,000	028851135566
13456	heated	4	23.6	100,000	028851134569	13557		wideband a/f	4	15.0	100,000	028851135573
13457	heated	4	11.4	100,000	028851134576	13558		heated	4	31.1	100,000	028851135580
13458	heated	4	11.8	100,000	028851134583	13559		heated	4	13.4	100,000	028851135597
13459	heated	4	16.1	100,000	028851134590	13562		heated	3	26.8	100,000	028851135627
13460	heated	4	12.6	100,000	028851134606	13563	(13551)	heated	4	26.4	100,000	028851135634
13461	heated	4	13.8	100,000	028851134613	13564		heated	4	23.6	100,000	028851135641
13463	Heated	4.0	15.4	100,000	028851134637	13565		heated	4	8.3	100,000	028851135658
13466	Heated	4.0	16.9	100,000	028851134668	13566		heated	4	11.8	100,000	028851135665
13468	heated	4	28.0	100,000	028851134682	13568		heated	4	34.4	100,000	028851135689
13469	heated	4	18.3	100,000	028851134699	13569	15716	heated	4		100,000	028851135696
13470	heated	4	9.4	100,000	028851134705	13570	15716	heated	4		100,000	028851135702
13471	unheated	2	17.7	100,000	028851134712	13571		heated	4	10.8	100,000	028851135719
13473	heated	4	18.5	100,000	028851134736	13572		heated	3	17.7	100,000	028851135726
13474	heated	4	14.6	100,000	028851134743	13574		heated	4	22.4	100,000	028851135740
13475	heated	4	21.7	100,000	028851134750	13575	13104	heated	4	8.3	100,000	028851135757
13476	heated	4.0	7.9	100,000	028851134767	13576		heated	3	13.8	100,000	028851135764
13477	heated	4	12.8	100,000	028851134774	13577		heated	4	33.1	100,000	028851135771
13479	13450 heated	4	74.0	100,000	028851134798	13578		heated	4	22.0	100,000	028851135788
13480	heated	4	24.0	100,000	028851134804	13579		heated	4	19.3	100,000	028851135795
13482	heated	3	8.7	100,000	028851134828	13580		heated	4	22.8	100,000	028851135801
13483	heated	4	55.0	100,000	028851134835	13581		heated	4	31.6	100,000	028851135818
13487	heated	4	23.6	100,000	028851134873	13582		heated	4	15.2	100,000	028851135825
13489	heated	4	27.6	100,000	028851134897	13583		heated	3	20.9	100,000	028851135832
13493	wideband a/f	4	13.4	100,000	028851134934	13584		heated	4	26.0	100,000	028851135849
13494	heated	4	47.8	50,000	028851134941	13585	(13574)	heated	4	23.6	100,000	028851135856



Oxygen Sensors

UPC Cross Reference

							Bosch						
Part No.	(SS to)	Type	Wires	Length (in.)	Check/Replace Interval (Miles)	UPC with Check Digit							
13586	(15244)	heated	4	28.0	100,000	028851135863	13682		heated	4	43.3	100,000	028851136822
13588		heated	4	28.7	100,000	028851135887	13684	13377	heated	4	14.8	100,000	028851136846
13589		heated	3	19.2	100,000	028851135894	13685		heated	4	13.2	100,000	028851136853
13591		heated	4	50.4	100,000	028851135917	13686		heated	4	14.8	100,000	028851136860
13595		heated	4	17.7	100,000	028851135955	13687		heated	4	18.5	100,000	028851136877
13596		heated	4	23.5	100,000	028851135962	13688		heated	4	21.3	100,000	028851136884
13597		heated	4	20.9	100,000	028851135979	13689		heated	4	42.9	100,000	028851136891
13598		heated	4	29.9	100,000	028851135986	13690		heated	4	31.3	100,000	028851136907
13599		heated	4	24.0	100,000	028851135993	13691	13687	heated	4	17.7	100,000	028851136914
13600	15716	heated	4		100,000	028851136006	13692		heated	4	33.1	100,000	028851136921
13602	(13218)	heated	4	17.6	100,000	028851136020	13694		heated	4	21.7	100,000	028851136945
13610		heated	4	12.6	100,000	028851136105	13695		heated	4	15.4	100,000	028851136952
13612	(15719)	heated	4	23.6	100,000	028851136129	13701		heated	4	21.7	100,000	028851137010
13613		wideband a/f	4	12.2	100,000	028851136136	13702		heated	3	15.2	100,000	028851137027
13615		heated	4	13.8	100,000	028851136150	13703		heated	3	13.8	100,000	028851137034
13617		heated	3	16.1	100,000	028851136174	13704		heated	4	41.1	100,000	028851137041
13618		heated	4	33.7	100,000	028851136181	13705	13680	wideband a/f	4	12.8	100,000	028851137058
13619		heated	4	19.7	100,000	028851136198	13706		wideband a/f	4	12.0	100,000	028851137065
13621		heated	4.0	26.0	100,000	028851136211	13707		heated	4	23.6	100,000	028851137072
13622		heated	4	22.8	100,000	028851136228	13708	15476	heated	4	10.8	100,000	028851137089
13623	(13353)	heated	4	20.9	100,000	028851136235	13709		heated	4	14.8	100,000	028851137096
13624	13340	heated	4	13.4	100,000	028851136242	13710		heated	4	11.8	100,000	028851137102
13626		wideband a/f	4	24.4	100,000	028851136266	13711	13610	heated	4	11.8	100,000	028851137119
13630		heated	3	12.3	100,000	028851136303	13712	(13937)	heated	4	11.8	100,000	028851137126
13632		heated	4	16.1	100,000	028851136327	13713	15825	heated	4	17.7	100,000	028851137133
13633	13619	heated	4	19.7	100,000	028851136334	13714		heated	4	11.8	100,000	028851137140
13634		heated	4	23.6	100,000	028851136341	13715		heated	4		100,000	028851137157
13635		heated	3	19.3	100,000	028851136358	13716	(13937)	heated	4	11.8	100,000	028851137164
13637		heated	4	19.7	100,000	028851136372	13717		heated	4	13.8	100,000	028851137171
13638		heated	4	10.6	100,000	028851136389	13718		heated	4	10.8	100,000	028851137188
13639		heated	4	29.6	100,000	028851136396	13719	15825	heated	4	17.7	100,000	028851137195
13640		heated	4	29.9	100,000	028851136402	13720		heated	4	9.4	100,000	028851137201
13641		heated	3	18.1	100,000	028851136419	13721		heated	4	33.1	100,000	028851137218
13642		heated	4	17.7	100,000	028851136426	13723		heated	4	27.2	100,000	028851137232
13643		heated	4	27.2	100,000	028851136433	13725		heated	4	41.3	100,000	028851137256
13644		heated	4	35.6	100,000	028851136440	13727		heated	4	45.3	100,000	028851137270
13645		heated	4	39.4	100,000	028851136457	13728	(15487)	heated	4	12.8	100,000	028851137287
13646		heated	4	20.1	100,000	028851136464	13732		heated	4	27.2	100,000	028851137324
13647		heated	4	17.3	100,000	028851136471	13733		wideband a/f	4	19.7	100,000	028851137331
13650		heated	4	35.2	100,000	028851136501	13735		wideband a/f	4	10.8	100,000	028851137355
13651		heated	4	47.6	100,000	028851136518	13736		heated	4	24.0	100,000	028851137362
13652		heated	3	14.4	100,000	028851136525	13737		wideband a/f	4	7.9	100,000	028851137379
13653		heated	4	17.5	100,000	028851136532	13740		heated	4	44.5	100,000	028851137409
13654		heated	4	21.9	100,000	028851136549	13743		heated	4	29.7	100,000	028851137430
13655	13256	heated	4	16.9	100,000	028851136556	13744			4	16.7	100,000	028851137447
13656		heated	4	15.7	100,000	028851136563	13745		heated	4	15.7	100,000	028851137454
13657		heated	3	16.5	100,000	028851136570	13746		titania	4	13.0	100,000	028851137461
13658		heated	3	22.8	100,000	028851136587	13747		titania	4	25.0	100,000	028851137478
13659		heated	4	7.7	100,000	028851136594	13748		titania	4	12.2	100,000	028851137485
13661		heated	4	29.3	100,000	028851136617	13749		titania	4	16.1	100,000	028851137492
13662		heated	4	42.9	100,000	028851136624	13750	13753	heated	4	11.8	100,000	028851137508
13663		heated	3	14.4	100,000	028851136631	13751		heated	4	22.2	100,000	028851137515
13664		heated	4	11.8	100,000	028851136648	13752		heated	4	17.0	100,000	028851137522
13665	13687	heated	4	17.9	100,000	028851136655	13753		heated	4	12.6	100,000	028851137539
13666		heated	3	20.5	100,000	028851136662	13754		heated	4	13.8	100,000	028851137546
13669	13670	heated	4	9.8	100,000	028851136693	13755		heated	4	28.9	100,000	028851137553
13670		heated	4	9.6	100,000	028851136709	13756		heated	4	31.5	50,000	028851137560
13671	(13610)	heated	4	12.4	100,000	028851136716	13758	15295	heated	4	8.5	100,000	028851137584
13672		heated	4	15.0	100,000	028851136723	13759	13041	heated	4	23.2	100,000	028851137591
13673		heated	3	16.1	100,000	028851136730	13760		heated	4	16.9	100,000	028851137607
13674		heated	4	20.5	100,000	028851136747	13761		heated	4	15.4	100,000	028851137614
13675		heated	4	14.4	100,000	028851136754	13762		heated	4.0	11.9	100,000	028851137621
13676		heated	4	20.1	100,000	028851136761	13763		heated	4	8.7	100,000	028851137638
13677	(15948)	heated	4	18.7	100,000	028851136778	13765	(15040)	heated	4	13.8	100,000	028851137652
13678		wideband a/f	4	16.3	100,000	028851136785	13766		heated	4.0	18.5	100,000	028851137669
13679		heated	4	25.6	100,000	028851136792	13767		heated	4	25.6	100,000	028851137676
13680		wideband a/f	4	13.8	100,000	028851136808	13768		heated	4	15.0	100,000	028851137683

UPC Cross Reference

Oxygen Sensors

						Bosch							
						Part No.	(SS to)	Type	Wires	Length (in.)	Check/Replace Interval (Miles)	UPC with Check Digit	
13769	heated	4	18.1	100,000	028851137690	13863		heated	4	19.7	100,000	028851138635	
13770	heated	4	31.5	100,000	028851137706	13864		heated	4	14.8	100,000	028851138642	
13772	heated	4	10.2	100,000	028851137720	13865	13581	heated	4	29.3	100,000	028851138659	
13773	heated	4	28.1	100,000	028851137737	13866		heated	4	39.4	100,000	028851138666	
13774	heated	4	21.9	100,000	028851137744	13868		heated	4	25.6	100,000	028851138680	
13775	heated	4	18.1	100,000	028851137751	13869		heated	4	11.8	100,000	028851138697	
13776	13937	heated	4	11.8	100,000	028851137768	13870		heated	4	9.4	100,000	028851138703
13777			4	21.3	100,000	028851137775	13871		heated	4.0	24.5	100,000	028851138710
13778	13441	heated	4	10.6	100,000	028851137782	13872		heated	4	40.9	100,000	028851138727
13779		heated	4	12.2	100,000	028851137799	13873	15290	heated	4	19.3	100,000	028851138734
13780		heated	4	12.2	100,000	028851137805	13875		heated	4.0	16.9	100,000	028851138758
13781			4	21.5	100,000	028851137812	13877		heated	4	24.8	100,000	028851138772
13782		heated	4	12.8	100,000	028851137829	13878		heated	4	24.4	100,000	028851138789
13783		titania	3	18.3	100,000	028851137836	13879		heated	4	37.4	100,000	028851138796
13784		heated	4	16.1	100,000	028851137843	13882		heated	4	10.6	100,000	028851138826
13785		heated	4	17.3	100,000	028851137850	13884		titania	4	39.0	100,000	028851138840
13786	(15284)	heated	4	15.7	100,000	028851137867	13885		heated	4	35.0	100,000	028851138857
13787		heated	4	13.0	100,000	028851137874	13886		heated	4	14.2	100,000	028851138864
13788		heated	4	14.6	100,000	028851137881	13887		heated	4	14.2	100,000	028851138871
13789		titania	4	28.9	100,000	028851137898	13889		heated	4	31.5	100,000	028851138895
13790		heated	4	10.6	100,000	028851137904	13890		heated	4	21.7	100,000	028851138901
13791		titania	3	9.4	50,000	028851137911	13891		heated	4	18.9	100,000	028851138918
13795	(13801)	heated	4	21.3	100,000	028851137959	13892		heated	4	23.6	100,000	028851138925
13796		heated	4	21.7	100,000	028851137966	13893		heated	4	18.3	100,000	028851138932
13797		heated	4	12.4	100,000	028851137973	13894		heated	4	19.7	100,000	028851138949
13798		heated	4	22.2	100,000	028851137980	13895	(13581)	heated	4	27.6	100,000	028851138956
13801		heated	4	21.7	100,000	028851138017	13896		unheated	2	17.7	60,000	028851138963
13803	13801	heated	4	18.1	100,000	028851138031	13897		heated	4	10.6	100,000	028851138970
13804		heated	4	21.7	100,000	028851138048	13898		unheated	2	19.0	100,000	028851138987
13805		heated	4	18.3	100,000	028851138055	13900		heated	4	33.5	100,000	028851139007
13806		heated	4	9.8	100,000	028851138062	13902		heated	4	18.9	100,000	028851139021
13807		heated	4	16.7	50,000	028851138079	13903		unheated	1	17.7	100,000	028851139038
13808		heated	4	28.3	50,000	028851138086	13904		heated	4	33.1	100,000	028851139045
13809		heated	4	28.0	100,000	028851138093	13906		heated	4	22.8	100,000	028851139069
13812		heated	4	11.4	50,000	028851138123	13907		heated	4	22.8	100,000	028851139076
13815		heated	4	34.4	100,000	028851138154	13908		heated	4	17.7	100,000	028851139083
13816		heated	4	17.7	100,000	028851138161	13909		heated	3	19.7	50,000	028851139090
13817		heated	4	26.4	100,000	028851138178	13910		heated	3	19.7	50,000	028851139106
13818		heated	4	29.3	100,000	028851138185	13911		heated	4	28.5	100,000	028851139113
13819		heated	4	22.6	100,000	028851138192	13912		heated	4	31.5	100,000	028851139120
13820		heated	4	38.6	100,000	028851138208	13913		heated	3	10.6	60,000	028851139137
13822		heated	4	22.8	100,000	028851138222	13914		heated	4	30.3	100,000	028851139144
13823		heated	4	34.5	100,000	028851138239	13915		heated	3	12.6	60,000	028851139151
13827	13420	heated	3	11.9	100,000	028851138277	13916		heated	4	22.2	100,000	028851139168
13830		heated	4	18.7	50,000	028851138307	13917		heated	4	30.7	100,000	028851139175
13832		heated	4	10.4	50,000	028851138321	13918		heated	3	22.0	60,000	028851139182
13833	(13425)	heated	4	33.3	50,000	028851138338	13919		heated	4	31.5	100,000	028851139199
13836		unheated	1	17.8	50,000	028851138369	13920		heated	4	26.0	100,000	028851139205
13838		heated	4	29.7	100,000	028851138383	13921		heated	4	26.0	100,000	028851139212
13839		heated	4	32.5	100,000	028851138390	13922		wideband a/f	5	22.4	100,000	028851139229
13840		heated	4.0	20.5	100,000	028851138406	13923		titania	4	20.9	100,000	028851139236
13841		heated	3	14.8	100,000	028851138413	13924		heated	3	27.2	60,000	028851139243
13842		heated	4	28.7	100,000	028851138420	13925		heated	3	29.5	60,000	028851139250
13843		heated	4	14.2	100,000	028851138437	13926		heated	3	37.8	60,000	028851139267
13844		heated	4	12.4	100,000	028851138444	13927		titania	4	20.5	100,000	028851139274
13845	(13745)	heated	4	12.2	100,000	028851138451	13928		unheated	2	16.1	50,000	028851139281
13847		heated	4	15.7	100,000	028851138475	13930		heated	3	27.4	60,000	028851139304
13848		titania	3	16.1	100,000	028851138482	13933		heated	4	23.0	100,000	028851139335
13850		heated	4	39.4	100,000	028851138505	13936		heated	3	54.3	60,000	028851139366
13851		heated	4.0	21.3	100,000	028851138512	13937		heated		12.0	100,000	028851139373
13852		heated	4	16.1	100,000	028851138529	13938		heated	4	22.0	50,000	028851139380
13853		heated	4.0	16.7	100,000	028851138536	13940		heated	4	13.6	100,000	028851139403
13854		heated	4	29.5	100,000	028851138543	13942		heated	3	10.8	60,000	028851139427
13857		heated	4	19.7	100,000	028851138574	13944		heated	4	38.2	100,000	028851139441
13859		heated	4	13.8	100,000	028851138598	13946		titania	3	20.5	50,000	028851139465
13860		heated	4	22.5	100,000	028851138604	13947		unheated	1	15.4	50,000	028851139472
13862		heated	4	24.6	100,000	028851138628	13948		heated	3	15.7	100,000	028851139489



Oxygen Sensors

UPC Cross Reference

						Bosch							
Part No.	(SS to)	Type	Wires	Length (in.)	Check/Replace Interval (Miles)	UPC with Check Digit							
13949		heated	4	31.5	100,000	028851139496	15034		heated	4	17.7	100,000	028851150347
13950		heated	3	15.4	60,000	028851139502	15035		heated	4	26.0	100,000	028851150354
13951		heated	4	36.2	100,000	028851139519	15036		heated	4	16.7	100,000	028851150361
13952		heated	4	28.0	100,000	028851139526	15037		heated	4	28.7	100,000	028851150378
13953		heated	3	19.1	60,000	028851139533	15038	15634	heated	4	9.8	100,000	028851150385
13954		wideband a/f	5	10.8	100,000	028851139540	15039		heated	4	24.8	100,000	028851150392
13955		heated	4	38.2	100,000	028851139557	15040		heated	4	13.8	100,000	028851150408
13956		heated	4	21.3	100,000	028851139564	15041		heated	4	23.6	100,000	028851150415
13957		heated	3	47.6	60,000	028851139571	15042		heated	4	21.3	100,000	028851150422
13958		wideband a/f	5	11.4	100,000	028851139588	15043		heated	4	10.8	100,000	028851150439
13959		heated	4	21.5	100,000	028851139595	15044		heated	4	36.4	100,000	028851150446
13960		heated	4	25.2	100,000	028851139601	15045		heated	4	23.5	100,000	028851150453
13961		heated	4	23.6	100,000	028851139618	15046		heated	4	27.2	100,000	028851150460
13962		heated	4	31.7	100,000	028851139625	15047		heated	4	22.0	100,000	028851150477
13963		unheated	1	32.0	60,000	028851139632	15048		heated	4	16.1	100,000	028851150484
13964		heated	3	11.8	100,000	028851139649	15050		heated	4.0	10.8	100,000	028851150507
13965		wideband a/f	5	21.7	100,000	028851139656	15051		heated	4	20.5	100,000	028851150514
13966	(13256)	heated	4	16.7	100,000	028851139663	15052		wideband a/f	4.0	12.6	100,000	028851150521
13967		heated	4	15.7	100,000	028851139670	15054		heated	4	35.4	100,000	028851150545
13968		heated	3	15.0	100,000	028851139687	15055		heated	4	15.6	100,000	028851150552
13969		heated	4	21.7	100,000	028851139694	15056		heated	4	32.3	100,000	028851150569
13970		heated	4	9.8	100,000	028851139700	15057		heated	4	20.9	100,000	028851150576
13971		heated	4	12.0	100,000	028851139717	15058		heated	4	25.2	100,000	028851150583
13972		titania	3	31.9	50,000	028851139724	15059		heated	4	21.1	100,000	028851150590
13974		heated	4	24.6	100,000	028851139748	15061		heated	4	35.6	100,000	028851150613
13975	(13938)	heated	4	18.9	100,000	028851139755	15062		heated	4	68.1	100,000	028851150620
13976	(15479)	heated	4	22.6	100,000	028851139762	15063		heated	4	26.0	100,000	028851150637
13977		heated	4	18.7	100,000	028851139779	15064		heated	4.0		100,000	028851150644
13978		heated	4	17.7	100,000	028851139786	15065		heated	4.0	47.8	100,000	028851150651
13979		heated	4	18.7	100,000	028851139793	15066		heated	4.0	35.0	100,000	028851150668
13981		titania	4	25.2	100,000	028851139816	15068		heated	4.0	24.8	100,000	028851150682
13982		heated	4	10.6	100,000	028851139823	15069		heated	4	27.6	100,000	028851150699
13983		heated	4	15.2	100,000	028851139830	15070		wideband a/f	5.0	11.6	100,000	028851150705
13986		heated	4	35.8	100,000	028851139861	15071		heated	4	23.4	100,000	028851150712
13987	13104	heated	4	7.5	100,000	028851139878	15072		heated	4.0	19.0	100,000	028851150729
13988		heated	4	16.9	100,000	028851139885	15073		heated	4.0	20.8	100,000	028851150736
13989		heated	4	33.9	100,000	028851139892	15074		heated	4	17.5	100,000	028851150743
13992	(15244)	heated	4	27.6	100,000	028851139922	15075		heated	2	47.8	100,000	028851150750
13995	13540	wideband a/f	4	13.0	100,000	028851139953	15076		heated	4.0	21.7	100,000	028851150767
13996		wideband a/f	4	11.4	100,000	028851139960	15077	13441	heated	4	10.8	100,000	028851150774
13997		wideband a/f	4	15.7	100,000	028851139977	15079		heated	4.0	16.1	100,000	028851150798
13998		wideband a/f	4	16.1	100,000	028851139984	15080		heated	4.0	20.3	100,000	028851150804
15000		heated	4	11.4	100,000	028851150002	15081	15400	wideband a/f	4.0	16.1	100,000	028851150811
15001		heated	4	12.7	100,000	028851150019	15082		wideband a/f	4.0	20.5	100,000	028851150828
15002		heated	4.0	23.3	100,000	028851150026	15083		heated	4	44.9	100,000	028851150835
15003		heated	4	23.2	100,000	028851150033	15084		heated	4.0	26.2	100,000	028851150842
15004		heated	4	23.6	100,000	028851150040	15085		heated	4.0	20.5	100,000	028851150859
15005		heated	4	10.4	100,000	028851150057	15086		heated	4.0	25.6	100,000	028851150866
15006		heated	4.0	10.8	100,000	028851150064	15087		heated	4.0	29.5	100,000	028851150873
15007	15511				100,000	028851150071	15088		heated	4	31.9	100,000	028851150880
15009		heated	4	21.3	100,000	028851150095	15089		heated	4.0	7.5	100,000	028851150897
15011		heated	4.0	27.6	100,000	028851150118	15090		heated	4	25.8	100,000	028851150903
15013		heated	4.0	7.2	100,000	028851150132	15091	15487	heated			100,000	028851150910
15015		wideband a/f	4.0	15.0	100,000	028851150156	15092		heated	4	23.4	100,000	028851150927
15017		wideband a/f	4.0	13.0	100,000	028851150170	15093		wideband a/f	4.0	16.1	100,000	028851150934
15019		wideband a/f	4	30.3	100,000	028851150194	15094		heated	4	12.6	100,000	028851150941
15021		heated	4	20.5	100,000	028851150217	15095		wideband a/f	4.0	14.0	100,000	028851150958
15024		heated	4	40.9	100,000	028851150248	15096	15487	heated			100,000	028851150965
15025		heated	4	21.7	100,000	028851150255	15097		heated	4	19.8	100,000	028851150972
15026		heated	4	42.5	100,000	028851150262	15098		heated	4	65.4	100,000	028851150989
15027		heated	4	27.2	100,000	028851150279	15099		heated	4	83.7	100,000	028851150996
15028		heated	4	17.3	100,000	028851150286	15100		heated	4.0	7.5	100,000	028851151009
15029	(15028)	heated	4	17.3	100,000	028851150293	15101		heated	4.0	7.1	100,000	028851151016
15030		heated	4	12.8	100,000	028851150309	15102	(13420)	heated	3	11.6	100,000	028851151023
15031		heated	4	26.8	100,000	028851150316	15103		heated	1.0	8.5	100,000	028851151030
15032		heated	4	19.7	100,000	028851150323	15104		heated	1.0	7.5	100,000	028851151047
15033		heated	4	17.7	100,000	028851150330	15105		heated	4.0	20.5	100,000	028851151054

UPC Cross Reference

Oxygen Sensors

						Bosch						
Part No.	(SS to)	Type	Wires	Length (in.)	Check/Replace Interval (Miles)	UPC with Check Digit						
15106		heated	4.0	8.7	100,000	028851151061	15174	heated	4.0	100,000	028851151740	
15107		heated	4.0	9.4	100,000	028851151078	15175	heated	4	13.4	100,000	028851151757
15108		wideband a/f	4.0	8.5	100,000	028851151085	15176	wideband a/f	5.0	23.2	100,000	028851151764
15109		heated	4	38.6	100,000	028851151092	15177	wideband a/f	4.0		100,000	028851151771
15110		wideband a/f	4.0	8.7	100,000	028851151108	15178	heated	4.0		100,000	028851151788
15111		heated	4.0	7.1	100,000	028851151115	15179	heated	4.0		100,000	028851151795
15112		heated	4.0	9.1	100,000	028851151122	15180	heated	4.0		100,000	028851151801
15113		heated	4	11.2	100,000	028851151139	15181	heated	4.0		100,000	028851151818
15114		heated	4	17.9	100,000	028851151146	15182	heated	4	9.6	100,000	028851151825
15116		heated	4.0	18.1	100,000	028851151160	15183	heated	4	15.9	100,000	028851151832
15117		heated	4.0	8.5	100,000	028851151177	15184	wideband a/f	4.0	18.5	100,000	028851151849
15118		wideband a/f	4.0	10.2	100,000	028851151184	15185	heated	4.0		100,000	028851151856
15119		heated	4.0	21.5	100,000	028851151191	15186	15717 heated			100,000	028851151863
15120		heated	4.0	21.3	100,000	028851151207	15187	heated	4.0		100,000	028851151870
15121		heated	4.0	43.7	100,000	028851151214	15188	heated	4.0		100,000	028851151887
15122		heated	4.0	18.1	100,000	028851151221	15189	heated	4.0		100,000	028851151894
15123		heated	4.0	17.9	100,000	028851151238	15190	heated	4.0		100,000	028851151900
15124		heated	4.0	12.3	100,000	028851151245	15191	heated	4.0		100,000	028851151917
15125		heated	4.0	21.5	100,000	028851151252	15193	heated	4.0		100,000	028851151931
15126		heated	4.0	43.3	100,000	028851151269	15194	heated	4.0		100,000	028851151948
15127		heated	4.0	28.4	100,000	028851151276	15195	heated	4.0	9.7	100,000	028851151955
15128		heated	4		100,000	028851151283	15196	heated	4.0	15.6	100,000	028851151962
15129		heated	4		100,000	028851151290	15197	wideband a/f	4.0	19.7	100,000	028851151979
15130		heated	4.0		100,000	028851151306	15198	wideband a/f	4.0	13.2	100,000	028851151986
15131		heated	4.0		100,000	028851151313	15199	heated	4	9.8	100,000	028851151993
15132		heated	4.0		100,000	028851151320	15200	heated	4	14.0	100,000	028851152006
15133		heated	4.0		100,000	028851151337	15201				100,000	028851152013
15134		heated	4.0		100,000	028851151344	15202	heated	4	9.1	100,000	028851152020
15135	15156				100,000	028851151351	15207	titania	4	70.9	50,000	028851152075
15136		heated	4.0	12.4	100,000	028851151368	15208	heated	4	29.9	100,000	028851152082
15137		heated	4.0	16.3	100,000	028851151375	15209	heated	3	21.7	50,000	028851152099
15138		Heated	4.0	41.1	100,000	028851151382	15210	heated	4	35.8	100,000	028851152105
15139		heated	4.0	12.2	100,000	028851151399	15211	heated	4	31.1	100,000	028851152112
15140		Heated	4.0	14.6	100,000	028851151405	15212	heated	4	31.1	100,000	028851152129
15141		heated	4	29.1	100,000	028851151412	15213	13353 heated	4	27.6	100,000	028851152136
15142		heated	4	13.8	100,000	028851151429	15214	heated	4	52.0	100,000	028851152143
15143		wideband a/f	5.0	12.2	100,000	028851151436	15215	heated	4	19.3	100,000	028851152150
15144		heated	4.0	37.4	100,000	028851151443	15217	wideband a/f	4	10.8	100,000	028851152174
15145		Heated	4.0	31.5	100,000	028851151450	15218	heated	4	12.8	100,000	028851152181
15146		wideband a/f	5.0	37.4	100,000	028851151467	15220	heated	4	31.7	100,000	028851152204
15147		heated	4.0	31.5	100,000	028851151474	15221	(15583) heated	4	25.2	100,000	028851152211
15148		Heated	4.0	15.8	100,000	028851151481	15222	heated	4	24.6	100,000	028851152228
15149		Heated	4.0	12.8	100,000	028851151498	15223	heated	4	15.2	100,000	028851152235
15150		heated	4.0	15.0	100,000	028851151504	15224	heated	4	31.5	100,000	028851152242
15151		heated	4.0	14.8	100,000	028851151511	15225	heated	4	41.3	100,000	028851152259
15152		heated	4.0	9.8	100,000	028851151528	15226	15290 heated	4	21.1	100,000	028851152266
15153		heated	4.0	18.9	100,000	028851151535	15227				100,000	028851152273
15154		Heated	4.0	9.8	100,000	028851151542	15228	heated	4	16.9	100,000	028851152280
15155		heated	4	12.2	100,000	028851151559	15231	13355 heated	4	12.2	100,000	028851152310
15156		heated	4	12.2	100,000	028851151566	15232	heated			100,000	028851152327
15157		heated	4.0		100,000	028851151573	15233	heated	4	15.6	100,000	028851152334
15158		heated	4.0		100,000	028851151580	15234	heated	4	42.9	100,000	028851152341
15159		Heated	4.0	9.1	100,000	028851151597	15235	heated	4	81.5	100,000	028851152358
15160		heated	4	55.1	100,000	028851151603	15236	heated			100,000	028851152365
15161		heated	4	9.8	100,000	028851151610	15237	unheated	2	9.1	60,000	028851152372
15162	15284	heated			100,000	028851151627	15238	13619 heated	4	18.9	100,000	028851152389
15163		wideband a/f	4.0	14.8	100,000	028851151634	15239	heated	4	23.0	100,000	028851152396
15164		heated	4.0	15.0	100,000	028851151641	15240	heated			100,000	028851152402
15165		heated	4.0	25.6	100,000	028851151658	15241	heated	4	11.4	100,000	028851152419
15166	(15165)	heated	4.0	25.6	100,000	028851151665	15242	unheated	1	18.5	100,000	028851152426
15167		heated	4.0	20.9	100,000	028851151672	15243	heated	4	21.3	100,000	028851152433
15168		heated	4.0	36.2	100,000	028851151689	15244	heated	4	31.5	100,000	028851152440
15169		wideband a/f	4.0	19.7	100,000	028851151696	15245	heated	4	19.9	100,000	028851152457
15170		heated	4.0	20.9	100,000	028851151702	15246	heated	4	33.1	100,000	028851152464
15171		wideband a/f	4.0	19.7	100,000	028851151719	15247	heated	4	18.9	100,000	028851152471
15172		Heated	4.0	20.9	100,000	028851151726	15248	heated	4	11.4	100,000	028851152488
15173		heated	4.0		100,000	028851151733	15250	heated	4	20.1	100,000	028851152501



Oxygen Sensors

UPC Cross Reference

						Bosch							
Part No.	(SS to)	Type	Wires	Length (in.)	Check/Replace Interval (Miles)	UPC with Check Digit							
15251		heated	4	13.8	100,000	028851152518	15328	(13289)	heated	4	17.7	100,000	028851153287
15252					100,000	028851152525	15330		heated	4	25.4	100,000	028851153300
15253		heated	4	30.3	100,000	028851152532	15334					100,000	028851153348
15254		heated	4	11.8	100,000	028851152549	15335		heated	4	44.5	100,000	028851153355
15255		heated	4	58.5	100,000	028851152556	15336	13469	heated	4	18.1	100,000	028851153362
15257		heated	4	20.5	100,000	028851152570	15337					100,000	028851153379
15260		wideband a/f	4	10.6	100,000	028851152600	15338		heated	4	15.6	60,000	028851153386
15261		heated	4	72.4	100,000	028851152617	15339		Heated	4.0	13.4	100,000	028851153393
15262	(13287)	heated	4	12.2	100,000	028851152624	15340		heated	3	11.0	100,000	028851153409
15263		heated	4	25.2	100,000	028851152631	15341					100,000	028851153416
15264		wideband a/f	4	9.8	100,000	028851152648	15342		heated	4	20.5	100,000	028851153423
15265		heated	4	16.9	100,000	028851152655	15343		heated	3	18.7	100,000	028851153430
15266		heated	4	18.1	100,000	028851152662	15345		heated	4	20.5	100,000	028851153454
15267		heated	4	25.0	100,000	028851152679	15346					100,000	028851153461
15268		wideband a/f	4	10.6	100,000	028851152686	15347		heated	4	9.3	100,000	028851153478
15269		heated	4	29.5	100,000	028851152693	15348		heated	4	13.8	100,000	028851153485
15270		heated	4	29.5	100,000	028851152709	15349		heated	4	18.9	100,000	028851153492
15271		unheated	1	13.9	50,000	028851152716	15350		heated	4	15.6	100,000	028851153508
15272		heated	4	31.5	100,000	028851152723	15351		heated	4	15.6	100,000	028851153515
15273		heated	4	16.9	100,000	028851152730	15352		heated	4	34.6	100,000	028851153522
15274		heated	4	13.9	100,000	028851152747	15353		heated	4	17.3	100,000	028851153539
15275		heated	4	16.1	100,000	028851152754	15354		heated	4	32.3	100,000	028851153546
15276		heated	4	16.9	100,000	028851152761	15355		heated	3	37.0	100,000	028851153553
15278		heated	4	12.2	100,000	028851152785	15356	15514	heated	4	14.6	100,000	028851153560
15279	13193	heated	4	15.7	100,000	028851152792	15357		heated	4	21.3	100,000	028851153577
15280		heated	4	13.2	100,000	028851152808	15358		heated	4	22.8	100,000	028851153584
15282		heated	4	14.8	100,000	028851152822	15359		heated	4	23.4	100,000	028851153591
15283		heated	4	21.9	100,000	028851152839	15360		heated	4	16.5	100,000	028851153607
15284		heated	4	15.9	100,000	028851152846	15361	15514	heated	4	13.6	100,000	028851153614
15285		heated	4	16.9	100,000	028851152853	15362		heated	3	18.9	100,000	028851153621
15286		wideband a/f	4	11.6	100,000	028851152860	15363		heated	3	11.2	100,000	028851153638
15287		heated	4	12.2	100,000	028851152877	15364					100,000	028851153645
15288	13035	heated	4	24.8	100,000	028851152884	15365		heated	4	15.2	100,000	028851153652
15289		heated	4	21.5	100,000	028851152891	15366		heated	4	11.8	100,000	028851153669
15290		heated	4	23.6	100,000	028851152907	15367		heated			100,000	028851153676
15291	(15290)	heated	4	19.3	100,000	028851152914	15368		heated	4	14.4	100,000	028851153683
15293		heated	4	16.7	100,000	028851152938	15369		heated	4	14.8	100,000	028851153690
15294		heated	4	23.8	100,000	028851152945	15370		heated	4	14.4	100,000	028851153706
15295		heated	4	8.7	100,000	028851152952	15371		heated	3	15.0	100,000	028851153713
15296		heated			100,000	028851152969	15372	(17264)	wideband a/f	5	13.0	100,000	028851153720
15297		heated	4	15.0	100,000	028851152976	15373		heated	4	18.5	100,000	028851153737
15299		heated	4	16.7	100,000	028851152990	15374		wideband a/f	5	24.4	100,000	028851153744
15300		heated	4	11.8	100,000	028851153003	15375		heated	4	11.4	100,000	028851153751
15301	(13718)	heated	4	10.8	100,000	028851153010	15376					100,000	028851153768
15302	13672	heated	4	15.0	100,000	028851153027	15377		heated	4	35.0	100,000	028851153775
15303	(13610)	heated	4	11.8	100,000	028851153034	15378		heated	4	24.0	100,000	028851153782
15305	13664	heated	4	11.8	100,000	028851153058	15379		heated	4	10.2	100,000	028851153799
15306		heated	4	18.1	100,000	028851153065	15380		heated	4	14.4	100,000	028851153805
15307	(13610)	heated	4	11.8	100,000	028851153072	15381			4	14.4	100,000	028851153812
15308		heated	4	18.1	100,000	028851153089	15382		heated	4	14.4	100,000	028851153829
15309		heated	4	18.7	100,000	028851153096	15383					100,000	028851153836
15310		heated	4	14.8	100,000	028851153102	15384		heated	4	10.4	100,000	028851153843
15312		heated	4	26.0	100,000	028851153126	15385		heated	4	25.2	100,000	028851153850
15313		heated	4	23.6	100,000	028851153133	15386		heated	4	21.7	100,000	028851153867
15314		heated	4	14.8	100,000	028851153140	15387		heated	4	18.1	100,000	028851153874
15315		heated	4	23.6	100,000	028851153157	15388		wideband a/f	5	13.8	100,000	028851153881
15316		heated	4	13.0	100,000	028851153164	15389		heated	4	28.7	100,000	028851153898
15318		heated			100,000	028851153188	15390	(13075)	heated	4	10.2	100,000	028851153904
15319		heated	4	32.1	100,000	028851153195	15391		heated	4	21.1	100,000	028851153911
15320					100,000	028851153201	15392	13256	heated	4	16.1	100,000	028851153928
15321		heated	4	16.5	100,000	028851153218	15393		wideband a/f	5	8.3	100,000	028851153935
15322		heated	4	22.4	100,000	028851153225	15394		wideband a/f	4	8.1	100,000	028851153942
15323		heated	4	20.9	100,000	028851153232	15395	(15394)	heated	4	8.1	100,000	028851153959
15324	15314	heated	4	12.2	100,000	028851153249	15396		unheated	1	15.0	100,000	028851153966
15325		heated	4	23.6	100,000	028851153256	15397	13680	wideband a/f	4	13.4	100,000	028851153973
15326		heated	4	18.5	100,000	028851153263	15398		heated	4	19.7	100,000	028851153980
15327		heated	4	19.7	100,000	028851153270	15399	13680	heated	4	11.8	100,000	028851153997



Oxygen Sensors

UPC Cross Reference

							Bosch						
Part No.	(SS to)	Type	Wires	Length (in.)	Check/Replace Interval (Miles)	UPC with Check Digit							
15553	(15280)	heated	4	12.2	100,000	028851155533	15623	(15486)	wideband a/f	4	19.7	100,000	028851156233
15554	(13455)	heated	4	12.2	100,000	028851155540	15624		wideband a/f	4	14.2	100,000	028851156240
15555		heated	4	23.0	100,000	028851155557	15625	(15635)	heated	4	24.8	100,000	028851156257
15557	(15561)	heated	4	12.2	100,000	028851155571	15626		heated	4	21.7	100,000	028851156264
15558		wideband a/f	4	15.7	100,000	028851155588	15627		wideband a/f	4	17.7	100,000	028851156271
15559		heated	4	21.7	100,000	028851155595	15630		heated	4	22.4	100,000	028851156301
15560	15290	heated	4	19.3	100,000	028851155601	15633		unheated	2	19.7	50,000	028851156332
15561		heated	4	12.4	100,000	028851155618	15634		heated	4	9.8	100,000	028851156349
15562		heated	4	22.0	100,000	028851155625	15635		heated	4	24.8	100,000	028851156356
15563	(13178)	heated	4	14.8	100,000	028851155632	15636		wideband a/f	4	21.9	100,000	028851156363
15564		heated	4	12.4	100,000	028851155649	15637		heated	4	32.7	100,000	028851156370
15565	13455	heated	4	9.6	100,000	028851155656	15638		heated	4	17.5	100,000	028851156387
15566	(15487)	heated	4	12.8	100,000	028851155663	15639	13361	heated	4	29.6	100,000	028851156394
15567	(13355)	heated	4	9.1	100,000	028851155670	15640					100,000	028851156400
15568		heated	4	29.9	100,000	028851155687	15641		heated	4	9.1	100,000	028851156417
15569		heated	4	13.7	100,000	028851155694	15642		heated	4	14.6	100,000	028851156424
15570		heated	4	25.5	100,000	028851155700	15643		heated	4	16.1	100,000	028851156431
15571		wideband a/f	4	11.8	100,000	028851155717	15644		heated	4	21.9	100,000	028851156448
15572		wideband a/f	4	11.3	100,000	028851155724	15645		heated	4	15.6	100,000	028851156455
15574			4	11.0	100,000	028851155748	15646		wideband a/f	5	18.1	100,000	028851156462
15575	13371	heated	4	11.9	100,000	028851155755	15647		heated	4	9.1	100,000	028851156479
15576		heated	4	32.4	100,000	028851155762	15648		heated	4	11.8	100,000	028851156486
15577	13822	heated	4	20.8	100,000	028851155779	15649		heated	4		100,000	028851156493
15578		heated	4	27.5	100,000	028851155786	15650		heated	4	15.9	100,000	028851156509
15579	15514	heated	4	13.8	100,000	028851155793	15651		heated	4	12.9	100,000	028851156516
15580		heated	4	27.9	100,000	028851155809	15652		heated	4	24.8	100,000	028851156523
15581		heated	4	32.6	100,000	028851155816	15653		heated	4	24.8	100,000	028851156530
15582		heated	4	18.1	100,000	028851155823	15654		heated	4	12.1	100,000	028851156547
15583		heated	4	26.6	100,000	028851155830	15655		heated	4	18.1	100,000	028851156554
15584		heated	4	9.4	100,000	028851155847	15656		heated	4	8.5	100,000	028851156561
15585	(15515)	heated	4	18.7	100,000	028851155854	15657		heated	4	25.9	100,000	028851156578
15586		wideband a/f	4	21.9	100,000	028851155861	15658		heated	4	28.0	100,000	028851156585
15587	(15360)	heated	4	16.4	100,000	028851155878	15659		heated	4	17.2	100,000	028851156592
15588		heated	4	18.7	100,000	028851155885	15660	13751	heated	4	23.4	100,000	028851156608
15589		heated	4	26.0	100,000	028851155892	15661		heated	4	14.7	100,000	028851156615
15590		heated	4	19.1	100,000	028851155908	15662	15659	heated	4	14.1	100,000	028851156622
15591		heated	4	15.7	100,000	028851155915	15663		heated	4	17.9	100,000	028851156639
15592		heated	4	18.9	100,000	028851155922	15664		heated	4	11.0	100,000	028851156646
15593		heated	4	22.5	100,000	028851155939	15665		heated	4	20.9	100,000	028851156653
15594	(15583)	heated	4	26.3	100,000	028851155946	15666		heated	4	10.6	100,000	028851156660
15595	15462	heated	4	23.6	100,000	028851155953	15667		wideband a/f	5	20.9	100,000	028851156677
15596	(15600)	heated	4	27.6	100,000	028851155960	15668		heated	4	11.2	100,000	028851156684
15597		heated	4	21.7	100,000	028851155977	15669		heated	4	38.4	100,000	028851156691
15598	15583	heated	4	24.4	100,000	028851155984	15670		heated	4	7.2	100,000	028851156707
15599		heated	4	23.5	100,000	028851155991	15671		heated	4	10.2	100,000	028851156714
15600		heated	4	27.2	100,000	028851156004	15672		heated	4	10.2	100,000	028851156721
15601		heated	4	17.2	100,000	028851156011	15674		heated	4	9.1	100,000	028851156745
15602		heated	4	22.8	100,000	028851156028	15675		heated	4.0	34.3	100,000	028851156752
15603		heated	4	29.1	100,000	028851156035	15677		heated	4	14.4	100,000	028851156776
15604	(15615)	heated	4	24.4	100,000	028851156042	15679	13394	heated	4	13.6	100,000	028851156790
15605		heated	4	24.4	100,000	028851156059	15680		heated	4	38.6	100,000	028851156806
15606		heated	4	24.0	100,000	028851156066	15681		heated	4	25.8	100,000	028851156813
15607		heated	4	21.7	100,000	028851156073	15682		heated	4	16.7	100,000	028851156820
15608		heated	4	17.5	100,000	028851156080	15683		heated	4	17.7	100,000	028851156837
15609		heated	4	23.1	100,000	028851156097	15684		heated	4	8.4	100,000	028851156844
15610		heated	4	24.0	100,000	028851156103	15685		heated	4	7.5	100,000	028851156851
15611		heated	4	23.9	100,000	028851156110	15686		heated	4	15.7	100,000	028851156868
15613		heated	4	11.1	100,000	028851156134	15687		heated	4	16.3	100,000	028851156875
15614		heated	4	18.9	100,000	028851156141	15688		heated	4	8.3	100,000	028851156882
15615		heated	4	24.3	100,000	028851156158	15689		heated	4	7.2	100,000	028851156899
15616	(13720)	heated	4	9.4	100,000	028851156165	15690		heated	4	14.4	100,000	028851156905
15617		heated	4	13.4	100,000	028851156172	15691		heated	4	18.5	100,000	028851156912
15618	(15087)	heated	4	29.5	100,000	028851156189	15692		heated	4	17.7	100,000	028851156929
15619	13355	heated	4	13.4	100,000	028851156196	15695		heated	4	31.3	100,000	028851156950
15620		heated	4	26.0	100,000	028851156202	15696					100,000	028851156967
15621		heated	4	22.4	100,000	028851156219	15697		heated	4	10.0	100,000	028851156974
15622		wideband a/f	4	11.4	100,000	028851156226	15698		heated	4	15.0	100,000	028851156981

UPC Cross Reference

Oxygen Sensors

						Bosch						
						Part No.	(SS to)	Type	Wires	Length (in.)	Check/Replace Interval (Miles)	UPC with Check Digit
15699	heated	4	26.0	100,000	028851156998	15800		heated	4	20.5	100,000	028851158008
15700	heated	3	12.2	100,000	028851157001	15801		heated	4	25.8	100,000	028851158015
15701	heated	3	15.0	100,000	028851157018	15802		heated	4	14.6	100,000	028851158022
15702	heated	4	12.2	100,000	028851157025	15804		heated	4.0	18.1	100,000	028851158046
15703	heated	4	12.2	100,000	028851157032	15806		heated	4	25.4	100,000	028851158060
15704	heated	4	21.9	100,000	028851157049	15810		heated	4	30.1	100,000	028851158107
15705	heated	4	11.8	100,000	028851157056	15811		heated	4	12.6	100,000	028851158114
15706	heated	4	59.1	60,000	028851157063	15812		heated	4	33.9	100,000	028851158121
15707	heated	4	35.1	60,000	028851157070	15814		heated	4	17.3	100,000	028851158145
15708	heated	4	11.1	100,000	028851157087	15815		heated	4	28.7	100,000	028851158152
15709	heated	3	13.8	100,000	028851157094	15816					100,000	028851158169
15710	heated	4	13.9	100,000	028851157100	15817		heated	4	18.5	100,000	028851158176
15711	heated	4	19.1	100,000	028851157117	15818		heated	4	17.1	100,000	028851158183
15712	heated	4	17.6	100,000	028851157124	15819		heated	3	13.0	100,000	028851158190
15716	heated	4	10.6	100,000	028851157162	15820		heated	3	11.4	100,000	028851158206
15717	heated	4	15.4	100,000	028851157179	15821		heated	3	34.4	100,000	028851158213
15718	heated	4	18.9	100,000	028851157186	15822		heated	4	18.1	100,000	028851158220
15719	heated	4	21.8	100,000	028851157193	15823		heated	4	30.7	100,000	028851158237
15723				100,000	028851157230	15824		wideband a/f	4	11.8	100,000	028851158244
15724	heated	4	18.1	100,000	028851157247	15825				18.1	100,000	028851158251
15725	heated	3	25.6	60,000	028851157254	15846		heated	4	11.8	100,000	028851158466
15726	heated	3	25.6	60,000	028851157261	15848		heated	4	12.6	100,000	028851158480
15727	heated	4	25.6	60,000	028851157278	15857		heated	4	32.7	100,000	028851158572
15728	heated	4	25.6	60,000	028851157285	15867		heated	4	44.9	100,000	028851158671
15729	heated	4	25.6	60,000	028851157292	15871		heated	4	49.6	100,000	028851158718
15730	heated	4	25.6	60,000	028851157308	15873		heated	4	43.3	100,000	028851158732
15731	heated	4	25.6	60,000	028851157315	15879	13273	heated	4	16.7	100,000	028851158794
15732	heated	4	25.6	100,000	028851157322	15881		heated	4	31.3	100,000	028851158817
15733	heated	4	26.0	100,000	028851157339	15892	13361		4	27.6	100,000	028851158923
15735	heated	3	25.6	100,000	028851157353	15906		wideband a/f	5	11.0	100,000	028851159067
15736	heated	4	25.6	100,000	028851157360	15908	13256	heated	4	16.3	100,000	028851159081
15737	heated	3	25.6	100,000	028851157377	15910		wideband a/f	5	11.4	100,000	028851159104
15738	heated	4	25.6	100,000	028851157384	15912		heated	4	25.5	100,000	028851159128
15739	heated	4	25.6	100,000	028851157391	15914		heated	4	30.7	100,000	028851159142
15752	heated	4	15.6	100,000	028851157520	15916		heated	4	32.3	100,000	028851159166
15753	heated	4	12.2	100,000	028851157537	15918		heated	4	18.1	100,000	028851159180
15755	heated	4	10.6	100,000	028851157551	15922		heated	4	28.0	100,000	028851159227
15756	heated	4	8.3	100,000	028851157568	15924		heated	4	21.7	100,000	028851159241
15757	heated	4	10.2	100,000	028851157575	15926		wideband a/f	4.0	20.5	100,000	028851159265
15758	heated	4	25.4	100,000	028851157582	15928		wideband a/f	4	37.4	100,000	028851159289
15759	heated	4	43.1	100,000	028851157599	15930		wideband a/f	4	18.5	100,000	028851159302
15761				100,000	028851157612	15932					100,000	028851159326
15762	heated	4	26.0	100,000	028851157629	15934		wideband a/f	4	48.8	100,000	028851159340
15763	heated	4	10.8	100,000	028851157636	15936		heated	4	21.9	100,000	028851159364
15764	heated	4	15.7	100,000	028851157643	15937		heated	4	14.2	100,000	028851159371
15765	heated	4	13.8	100,000	028851157650	15939	15949	heated	4	9.8	100,000	028851159395
15766	heated	4.0	16.6	100,000	028851157667	15942		heated	4	21.1	100,000	028851159425
15767	heated	4	14.6	100,000	028851157674	15943		heated	4	30.7	100,000	028851159432
15768	heated	4	9.6	100,000	028851157681	15944		heated	4	21.7	100,000	028851159449
15769	heated	4	60.0	100,000	028851157698	15946		heated	4	12.2	100,000	028851159463
15772	heated	4	26.4	100,000	028851157728	15948		heated	4	19.3	100,000	028851159487
15774	heated	4	30.3	100,000	028851157742	15949		heated	4	10.6	100,000	028851159494
15776	heated	4	30.3	100,000	028851157766	15950		heated	4.0	16.6	100,000	028851159500
15777				100,000	028851157773	15951		heated	3	9.1	100,000	028851159517
15782	wideband a/f	5	30.3	100,000	028851157827	15952	(15948)	heated	4	17.3	100,000	028851159524
15783	heated	4	25.6	100,000	028851157834	15953		heated	3	14.8	100,000	028851159531
15784	heated	4	9.1	100,000	028851157841	15954		heated	4	14.2	100,000	028851159548
15786	heated	4	17.3	100,000	028851157865	15955		heated	3	15.4	100,000	028851159555
15788	wideband a/f	5	19.5	100,000	028851157889	15956		heated	4	20.1	100,000	028851159562
15790	heated	4	29.5	100,000	028851157902	15957		heated	4	45.3	100,000	028851159579
15792	heated	4	18.3	100,000	028851157926	15958		heated	4	9.4	100,000	028851159586
15793	heated	4	22.8	100,000	028851157933	15959		heated	4	29.3	100,000	028851159593
15794	heated	4	27.6	100,000	028851157940	15960		wideband a/f	4	20.1	100,000	028851159609
15795	heated	4	23.2	100,000	028851157957	15961		heated	4	34.1	100,000	028851159616
15796	heated	4	8.1	100,000	028851157964	15962		wideband a/f	4	11.4	100,000	028851159623
15798	heated	4	20.3	100,000	028851157988	15963		heated	4	11.4	100,000	028851159630
15799	heated	4	14.2	100,000	028851157995	15964		wideband a/f	4	7.9	100,000	028851159647



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						Bosch							
Part No.	(SS to)	Type	Wires	Length (in.)	Check/Replace Interval (Miles)	UPC with Check Digit							
15965		heated	4	28.7	100,000	028851159654	16292		heated	4	37.4	100,000	028851162920
15966		wideband a/f	4	11.4	100,000	028851159661	16296		heated	4	35.2	100,000	028851162968
15967		heated	4	30.5	100,000	028851159678	16300		heated	4	13.8	100,000	028851163002
15968		wideband a/f	4	9.1	100,000	028851159685	16302		heated	4	57.5	100,000	028851163026
15970	13619	heated	4	19.3	100,000	028851159708	16305		heated	4	27.2	100,000	028851163057
15971		heated	3	8.9	100,000	028851159715	16307		heated	4	45.5	100,000	028851163071
15972		heated	4	23.6	100,000	028851159722	16318		heated	4	32.1	100,000	028851163187
15973		heated	4	24.0	100,000	028851159739	16320		heated	4	12.2	100,000	028851163200
15974		wideband a/f	4	14.8	100,000	028851159746	16322		heated	4	25.6	100,000	028851163224
15975		heated	4	28.9	100,000	028851159753	16324		heated	4	22.8	100,000	028851163248
15976	(15290)	heated	4	21.3	100,000	028851159760	16328		heated	4	16.9	100,000	028851163286
15978	(15290)	heated	4	21.7	100,000	028851159784	16330		heated	4	9.4	100,000	028851163309
15980	(15290)	heated	4	19.3	100,000	028851159807	16334		heated	4	29.7	100,000	028851163347
15983		heated	3	34.3	100,000	028851159838	16348		heated	4	9.6	100,000	028851163484
15984		wideband a/f	4	18.9	100,000	028851159845	16353		heated	4	22.2	100,000	028851163538
15986		heated	4	31.1	100,000	028851159869	16359		heated	4	24.8	100,000	028851163590
15988		wideband a/f	4	8.7	100,000	028851159883	16363		heated	4	31.5	100,000	028851163637
15990		heated	4	7.1	100,000	028851159906	16371		heated	4	52.8	100,000	028851163712
15992		heated	4	7.5	100,000	028851159920	16373		heated	4	19.9	100,000	028851163736
15994		heated	4	7.9	100,000	028851159944	16378		heated	4	17.3	100,000	028851163781
15996		wideband a/f	4	7.1	100,000	028851159968	16379		heated	4	13.4	100,000	028851163798
15998		wideband a/f	4	13.0	100,000	028851159982	16383		heated	4	36.2	100,000	028851163835
16039	(16121)	heated	4	35.6	100,000	028851160391	16385		heated	4	26.0	100,000	028851163859
16063		heated	4	12.4	100,000	028851160636	16392		heated	4	12.6	100,000	028851163927
16064		heated	4	40.6	100,000	028851160643	16400		heated	4	31.5	100,000	028851164009
16065		wideband a/f	5	22.4	100,000	028851160650	16404		heated	4	54.9	100,000	028851164047
16066		wideband a/f	5	16.9	100,000	028851160667	16406		heated	4	64.2	100,000	028851164061
16067		heated	4	56.9	100,000	028851160674	16412		heated	4	30.1	100,000	028851164122
16069		heated	4	56.9	100,000	028851160698	16416		heated	4	35.2	100,000	028851164160
16091		heated	4	66.3	100,000	028851160919	16418		heated	4	36.4	100,000	028851164184
16100		heated	4	30.7	100,000	028851161008	16420		heated	4	19.7	100,000	028851164207
16101		heated	4	30.7	100,000	028851161015	16422		heated	4	26.0	100,000	028851164221
16109		heated	4	19.5	100,000	028851161091	16433		heated	4	21.5	100,000	028851164337
16119	16121	heated	4	34.1	100,000	028851161190	16435		heated	4	21.7	100,000	028851164351
16121		heated	4	37.8	100,000	028851161213	16438		heated	4	16.9	100,000	028851164382
16123		heated	4	9.4	100,000	028851161237	16442		heated	4	56.7	100,000	028851164429
16125		heated	4	15.0	100,000	028851161251	16444		heated	4	56.7	100,000	028851164443
16146		heated	4	26.6	100,000	028851161466	16446		heated	4	30.1	100,000	028851164467
16159		heated	4	15.9	100,000	028851161596	16452		heated	4	33.9	100,000	028851164528
16167		heated	4	16.9	100,000	028851161671	16456		heated	4	26.4	100,000	028851164566
16173		heated	4	57.9	100,000	028851161732	16469	16363	heated	4	24.8	100,000	028851164696
16174		heated	4	26.4	100,000	028851161749	16473		heated	4	15.0	100,000	028851164733
16175		heated	4	32.3	100,000	028851161756	16475		heated	4	25.6	100,000	028851164757
16179		heated	4	27.0	100,000	028851161794	16488		heated	4	40.5	100,000	028851164887
16183		heated	4	13.0	100,000	028851161831	16495		heated	4	20.5	100,000	028851164955
16196		heated	4	46.1	100,000	028851161961	16498		heated	4	29.9	100,000	028851164986
16197		heated	4	25.0	100,000	028851161978	16506		heated	4	10.2	100,000	028851165068
16198		heated	4	64.6	100,000	028851161985	16511		heated	4	18.5	100,000	028851165112
16199		heated	4	30.3	100,000	028851161992	16513		heated	4	11.2	100,000	028851165136
16200		heated	4	39.4	100,000	028851162005	16515		heated	4	36.0	100,000	028851165150
16205		heated	4	22.6	100,000	028851162050	16517		heated	4	36.2	100,000	028851165174
16213		heated	4	22.6	100,000	028851162135	16532		heated	4	17.5	100,000	028851165327
16243		heated	4	36.2	100,000	028851162432	16541		heated	4	28.0	100,000	028851165419
16247		heated	4	49.6	100,000	028851162470	16544		heated	4	34.1	100,000	028851165440
16249		heated	4	28.3	100,000	028851162494	16550		heated	4	33.3	100,000	028851165501
16255		heated	4	21.3	100,000	028851162555	16554		heated	4	35.4	100,000	028851165549
16257		heated	4	22.0	100,000	028851162579	16557		heated	4	20.1	100,000	028851165570
16259		heated	4	44.9	100,000	028851162593	16559		heated	4	29.5	100,000	028851165594
16261		heated	4	44.1	100,000	028851162616	16575		heated	4	16.5	100,000	028851165754
16268		heated	4	23.0	100,000	028851162685	16582		heated	4	47.8	100,000	028851165822
16272		heated	4	15.7	100,000	028851162722	16584		heated	4	56.7	100,000	028851165846
16274		heated	4	18.1	100,000	028851162746	16586		heated	4	28.7	100,000	028851165860
16276		heated	4	12.6	100,000	028851162760	16587		heated	4	31.9	100,000	028851165877
16281		heated	4	33.9	100,000	028851162814	16589		heated	4	33.9	100,000	028851165891
16283		heated	4	67.3	100,000	028851162838	16591		heated	4	23.6	100,000	028851165914
16287		heated	4	24.0	100,000	028851162876	16596		heated	4	10.6	100,000	028851165969
16291		heated	4	35.0	100,000	028851162913	16609		heated	4	34.4	100,000	028851166096

UPC Cross Reference

Oxygen Sensors

						Bosch		
Part No.	(SS to)	Type	Wires	Length (in.)	Check/Replace Interval (Miles)	UPC with Check Digit		
16611		heated	4	26.0	100,000	028851166119	17034	wideband a/f 5 19.7 100,000 028851170345
16613		heated	4	20.1	100,000	028851166133	17035	wideband a/f 5 53.1 100,000 028851170352
16623		heated	4	16.3	100,000	028851166232	17036	wideband a/f 5 30.1 100,000 028851170369
16624		heated	4	32.6	100,000	028851166249	17037	wideband a/f 5 13.8 100,000 028851170376
16659		heated	4	31.5	100,000	028851166591	17038	(15667) wideband a/f 5 19.9 100,000 028851170383
16661		heated	4	31.1	100,000	028851166614	17039	wideband a/f 5 12.2 100,000 028851170390
16663		heated	4	59.8	100,000	028851166638	17040	wideband a/f 5 24.8 100,000 028851170406
16665		heated	4	63.4	100,000	028851166652	17044	wideband a/f 5 28.3 100,000 028851170444
16667		heated	4	66.5	100,000	028851166676	17045	wideband a/f 5 22.0 100,000 028851170451
16669		heated	4	65.7	100,000	028851166690	17046	wideband a/f 5 29.9 100,000 028851170468
16671		heated	4	20.1	100,000	028851166713	17051	wideband a/f 5 23.2 100,000 028851170512
16682		heated	4	29.1	100,000	028851166829	17053	wideband a/f 5 24.1 100,000 028851170536
16697		heated	4	29.5	100,000	028851166973	17054	wideband a/f 5 34.3 100,000 028851170543
16698		heated	4	28.7	100,000	028851166980	17066	wideband a/f 5 11.6 100,000 028851170666
16700		heated	4	17.5	100,000	028851167000	17068	wideband a/f 5 29.1 100,000 028851170680
16702		heated	4	17.3	100,000	028851167024	17070	wideband a/f 5 47.2 100,000 028851170703
16704		heated	4	18.5	100,000	028851167048	17071	wideband a/f 5 27.6 100,000 028851170710
16717		heated	4	12.2	100,000	028851167178	17082	wideband a/f 5 14.2 100,000 028851170826
16726		heated	4	20.5	100,000	028851167260	17084	wideband a/f 5 12.2 100,000 028851170840
16727		heated	4	24.8	100,000	028851167277	17085	wideband a/f 5 42.1 100,000 028851170857
16729		heated	4	24.8	100,000	028851167291	17086	wideband a/f 5 26.8 100,000 028851170864
16741		heated	4	19.5	100,000	028851167413	17088	wideband a/f 5 30.3 100,000 028851170888
16746		heated	4	9.8	100,000	028851167468	17090	wideband a/f 5 46.7 100,000 028851170901
16747		heated	4	18.1	100,000	028851167475	17091	wideband a/f 5 42.1 100,000 028851170918
16749		heated	4	11.8	100,000	028851167499	17093	wideband a/f 5 20.5 100,000 028851170932
16785		heated	4	31.1	100,000	028851167857	17094	wideband a/f 5 40.2 100,000 028851170949
16792		heated	4	16.5	100,000	028851167925	17095	wideband a/f 5 12.6 100,000 028851170956
16793		heated	4	11.6	100,000	028851167932	17097	wideband a/f 5 18.1 100,000 028851170970
16794		heated	4	16.5	100,000	028851167949	17098	wideband a/f 5 53.9 100,000 028851170987
16795		heated	4	20.9	100,000	028851167956	17099	wideband a/f 5 34.6 100,000 028851170994
16796		heated	4	18.1	100,000	028851167963	17101	wideband a/f 5 28.7 100,000 028851171014
16797		heated	4	27.0	100,000	028851167970	17105	wideband a/f 5 33.1 100,000 028851171052
16808		heated	4	15.7	100,000	028851168083	17109	wideband a/f 5 35.4 100,000 028851171090
16809		heated	4	13.8	100,000	028851168090	17112	wideband a/f 5 26.8 100,000 028851171120
16816		heated	4	26.0	100,000	028851168168	17113	wideband a/f 5 24.8 100,000 028851171137
16825		heated	4	21.7	100,000	028851168250	17114	wideband a/f 5 11.4 100,000 028851171144
16826		heated	4	23.0	100,000	028851168267	17115	wideband a/f 5 100,000 028851171151
16828		heated	4	9.8	100,000	028851168281	17116	wideband a/f 5 31.5 100,000 028851171168
16837		heated	4	18.5	100,000	028851168373	17117	wideband a/f 5 59.4 100,000 028851171175
16839		heated	4	26.8	100,000	028851168397	17121	wideband a/f 5 40.2 100,000 028851171212
16849		heated	4	50.8	100,000	028851168496	17124	wideband a/f 5 36.2 100,000 028851171243
16851		heated	4	50.0	100,000	028851168519	17125	wideband a/f 5 29.1 100,000 028851171250
16861		heated	4	14.3	100,000	028851168618	17126	wideband a/f 5 25.6 100,000 028851171267
16864		heated	4	11.6	100,000	028851168649	17134	(17036) wideband a/f 5 30.1 100,000 028851171342
16887		heated	4	12.6	100,000	028851168878	17135	wideband a/f 5 34.3 100,000 028851171359
16889		heated	4	11.4	100,000	028851168892	17137	wideband a/f 5 44.9 100,000 028851171373
16891		heated	4	21.7	100,000	028851168915	17138	wideband a/f 5 19.7 100,000 028851171380
16893		heated	4	32.3	100,000	028851168939	17140	wideband a/f 5 31.1 100,000 028851171403
16919		heated	4	21.5	100,000	028851169196	17149	wideband a/f 5 39.0 100,000 028851171496
16958		heated	4	21.7	100,000	028851169585	17157	wideband a/f 5 57.1 100,000 028851171571
17001		wideband a/f	5	18.5	100,000	028851170017	17158	wideband a/f 5 57.7 100,000 028851171588
17002		wideband a/f	5	40.6	100,000	028851170024	17160	wideband a/f 5 23.2 100,000 028851171601
17003		Typ. Len	5	26.6	100,000	028851170031	17161	wideband a/f 5 33.1 100,000 028851171618
17004		wideband a/f	5	12.6	100,000	028851170048	17163	wideband a/f 5 41.7 100,000 028851171632
17005		wideband a/f	5		100,000	028851170055	17174	wideband a/f 5 30.3 100,000 028851171748
17014		wideband a/f	5	28.9	100,000	028851170147	17175	wideband a/f 5 37.8 100,000 028851171755
17016		wideband a/f	5	20.9	100,000	028851170161	17176	wideband a/f 5 37.8 100,000 028851171762
17018		wideband a/f	5	16.9	100,000	028851170185	17177	wideband a/f 5 11.4 100,000 028851171779
17019		wideband a/f	5	31.5	100,000	028851170192	17179	wideband a/f 5 18.5 100,000 028851171793
17020		wideband a/f	5	48.4	100,000	028851170208	17183	wideband a/f 5 30.3 100,000 028851171830
17022		wideband a/f	5		100,000	028851170222	17185	(17264) wideband a/f 5 14.6 100,000 028851171854
17024		wideband a/f	5		100,000	028851170246	17188	wideband a/f 5 39.0 100,000 028851171885
17028		wideband a/f	5	24.4	100,000	028851170284	17189	wideband a/f 5 34.6 100,000 028851171892
17029		wideband a/f	5	23.2	100,000	028851170291	17191	wideband a/f 5 58.5 100,000 028851171915
17030		wideband a/f	5	46.1	100,000	028851170307	17193	wideband a/f 5 46.9 100,000 028851171939
17032		wideband a/f	5	33.5	100,000	028851170321	17201	wideband a/f 5 11.6 100,000 028851172011
17033	17137	wideband a/f	5	44.7	100,000	028851170338	17204	wideband a/f 5 14.8 100,000 028851172042



Oxygen Sensors

UPC Cross Reference

						Bosch		
Part No.	(SS to)	Type	Wires	Length (in.)	Check/Replace Interval (Miles)	UPC with Check Digit		
17205	wideband a/f	5	15.0	100,000	028851172059			
17208	wideband a/f	5	23.8	100,000	028851172080			
17215	wideband a/f	5	38.6	100,000	028851172158			
17216	wideband a/f	5	38.6	100,000	028851172165			
17221	wideband a/f	5	15.7	100,000	028851172219			
17223	wideband a/f	5	15.0	100,000	028851172233			
17227	wideband a/f	5	29.1	100,000	028851172271			
17229	wideband a/f	5	47.8	100,000	028851172295			
17233	wideband a/f	5	24.8	100,000	028851172332			
17234	wideband a/f	5	22.8	100,000	028851172349			
17235	wideband a/f	5	56.3	100,000	028851172356			
17237	wideband a/f	5	50.4	100,000	028851172370			
17243	wideband a/f	5	40.2	100,000	028851172431			
17244	wideband a/f	5	30.7	100,000	028851172448			
17246	wideband a/f	5	33.5	100,000	028851172462			
17254	wideband a/f	5	18.2	100,000	028851172547			
17255	wideband a/f	5	33.1	100,000	028851172554			
17256	wideband a/f	5	18.1	100,000	028851172561			
17258	wideband a/f	5	26.4	100,000	028851172585			
17260	wideband a/f	5	66.5	100,000	028851172608			
17262	wideband a/f	5	61.0	100,000	028851172622			
17264	wideband a/f	5	14.6	100,000	028851172646			
17275	wideband a/f	5	16.1	100,000	028851172752			
17276	wideband a/f	5	29.9	100,000	028851172769			
17278	wideband a/f	5	20.5	100,000	028851172783			
17287	wideband a/f	5	14.6	100,000	028851172875			
17296	wideband a/f	5	27.6	100,000	028851172967			
17298	wideband a/f	5	22.4	100,000	028851172981			
17300	wideband a/f	5	14.8	100,000	028851173001			
17307	wideband a/f	5	21.9	100,000	028851173070			
17313	wideband a/f	5	46.9	100,000	028851173131			
17315	wideband a/f	5	28.7	100,000	028851173155			
17318	wideband a/f	5	48.8	100,000	028851173186			
17320	wideband a/f	5	17.7	100,000	028851173209			
17322	wideband a/f	5	51.2	100,000	028851173223			
17324	wideband a/f	5	24.0	100,000	028851173247			
17326	wideband a/f	5	30.3	100,000	028851173261			
17328	wideband a/f	5	12.2	100,000	028851173285			
17330	wideband a/f	5	11.0	100,000	028851173308			
17332	wideband a/f	5	21.7	100,000	028851173322			
17334	wideband a/f	5	27.8	100,000	028851173346			
17336	wideband a/f	5	22.0	100,000	028851173360			
17344	wideband a/f	5	19.7	100,000	028851173445			
17346	wideband a/f	5	35.4	100,000	028851173469			
17348	wideband a/f	5	66.5	100,000	028851173483			
17349	wideband a/f	5	61.0	100,000	028851173490			
17403	wideband a/f	5	24.4	100,000	028851174039			
17430	wideband a/f	5		100,000	028851174305			
17432	wideband a/f	5		100,000	028851174329			

Competitor Cross Reference

Oxygen Sensors

Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.
AC DELCO		AC DELCO (cont'd)		AC DELCO (cont'd)		AC DELCO (cont'd)	
213-5	12014	213-1168	12909	213-1227	13913	213-1286	13572
213-5	12909	213-1169	12053	213-1228	13942	213-1286	13583
213-6	12919	213-1169	12054	213-1229	13190	213-1288	13245
213-7	12909	213-1171	12053	213-1230	15701	213-1289	13957
213-12	12046	213-1171	13963	213-1231	12008	213-1290	13255
213-12	13276	213-1172	12050	213-1232	13953	213-1291	13242
213-13	11051	213-1173	12038	213-1233	13211	213-1295	13524
213-13	13019	213-1174	11032	213-1234	13211	213-1299	12009
213-17	12009	213-1174	11051	213-1234	13232	213-1300	11051
213-18	12008	213-1174	12046	213-1234	13957	213-1300	13021
213-19	12053	213-1175	12054	213-1235	13181	213-1300	13791
213-20	12050	213-1175	12203	213-1236	13047	213-1300	15207
213-21	12051	213-1176	11051	213-1237	13008	213-1301	13252
213-21	12053	213-1176	12046	213-1238	13936	213-1301	13387
213-22	12002	213-1178	11032	213-1239	13019	213-1302	13385
213-22	12051	213-1179	12039	213-1239	13957	213-1303	13783
213-23	12051	213-1180	12054	213-1240	13165	213-1305	13848
213-24	11032	213-1181	12061	213-1240	13181	213-1306	12053
213-322	12028	213-1184	15271	213-1244	13396	213-1306	15448
213-360	13455	213-1186	13053	213-1244	13957	213-1307	13591
213-369	13022	213-1187	13043	213-1248	13049	213-1307	13972
213-375	12202	213-1188	13050	213-1248	13059	213-1308	15209
213-403	12055	213-1189	13947	213-1251	13926	213-1313	13946
213-404	13073	213-1191	12050	213-1253	15709	213-1315	13842
213-405	13041	213-1192	12061	213-1255	13101	213-1317	13117
213-406	13030	213-1193	12113	213-1255	13957	213-1317	13127
213-407	13051	213-1196	12051	213-1257	13909	213-1317	13133
213-409	13525	213-1197	12053	213-1258	13910	213-1317	13578
213-410	13519	213-1198	12102	213-1259	13012	213-1317	15675
213-412	13035	213-1198	12114	213-1259	13048	213-1317	15716
213-432	13500	213-1199	12102	213-1259	13058	213-1317	15717
213-433	12106	213-1199	13836	213-1259	13924	213-1317	15718
213-434	12201	213-1199	13903	213-1260	13054	213-1318	13317
213-437	12102	213-1199	15242	213-1261	13148	213-1319	13153
213-503	12014	213-1200	12112	213-1262	13915	213-1319	13280
213-504	12014	213-1200	13903	213-1265	13299	213-1319	13687
213-509	15703	213-1201	12051	213-1267	13146	213-1319	15704
213-511	12014	213-1201	12203	213-1267	13925	213-1320	13275
213-630	12006	213-1201	13471	213-1267	13930	213-1320	13317
213-631	12014	213-1203	12022	213-1268	13276	213-1321	13030
213-631	12050	213-1203	12023	213-1268	13416	213-1322	12053
213-631	12053	213-1203	12053	213-1268	13420	213-1322	13218
213-631	12054	213-1203	12111	213-1268	13482	213-1322	13598
213-632	13077	213-1203	15538	213-1268	15757	213-1322	15718
213-633	13077	213-1204	12108	213-1269	13370	213-1323	15541
213-634	15701	213-1204	12200	213-1270	13245	213-1324	13249
213-800	13178	213-1204	13898	213-1272	13250	213-1324	13539
213-801	13178	213-1205	12019	213-1273	13284	213-1324	15710
213-802	13193	213-1205	12043	213-1274	13362	213-1325	15703
213-804	13191	213-1206	12035	213-1275	13364	213-1326	13155
213-810	13029	213-1207	12007	213-1275	13549	213-1326	15707
213-810	13111	213-1208	12109	213-1276	13091	213-1327	15706
213-813	13022	213-1208	13619	213-1277	13445	213-1328	13115
213-816	13178	213-1210	12108	213-1278	13039	213-1329	13115
213-819	13193	213-1212	12205	213-1278	13311	213-1330	13890
213-925	13191	213-1213	12201	213-1278	13420	213-1333	13383
213-932	16063	213-1214	12202	213-1278	13617	213-1334	13052
213-939	13686	213-1215	12202	213-1278	13657	213-1335	13037
213-940	13701	213-1216	12105	213-1278	13673	213-1336	13067
213-941	13686	213-1217	12106	213-1279	13242	213-1336	13231
213-1148	13178	213-1218	12100	213-1280	13702	213-1337	13109
213-1149	13694	213-1220	12053	213-1281	13299	213-1338	13425
213-1165	12014	213-1221	15075	213-1282	13418	213-1339	13417
213-1166	12919	213-1222	13928	213-1283	13576	213-1339	13891
213-1167	12009	213-1223	12041	213-1284	13589	213-1340	13428
213-1167	12054	213-1224	13471	213-1285	13284	213-1341	13078
213-1167	12909	213-1224	13896	213-1285	13547	213-1342	13326



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Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.
AC DELCO (cont'd)		AC DELCO (cont'd)		AC DELCO (cont'd)		AC DELCO (cont'd)	
213-1342	13429	213-1379	13366	213-1423	13798	213-1472	13477
213-1343	13314	213-1381	13045	213-1424	13640	213-1472	13522
213-1344	13231	213-1382	13218	213-1424	13862	213-1472	13638
213-1346	13427	213-1383	13007	213-1427	13740	213-1472	13761
213-1346	13429	213-1383	13096	213-1428	13548	213-1472	13782
213-1354	13500	213-1383	13184	213-1428	13584	213-1473	13523
213-1354	15287	213-1383	13249	213-1428	13736	213-1473	13559
213-1356	13405	213-1383	13938	213-1428	13842	213-1473	13642
213-1356	15073	213-1384	13093	213-1429	13550	213-1474	13453
213-1356	15711	213-1386	13093	213-1431	13392	213-1476	13315
213-1357	13200	213-1387	13249	213-1431	15237	213-1476	13413
213-1357	13634	213-1387	13363	213-1431	15534	213-1476	13871
213-1358	13421	213-1387	13539	213-1432	13198	213-1476	15047
213-1359	13401	213-1387	15710	213-1432	13342	213-1480	13055
213-1359	13447	213-1388	13134	213-1433	13279	213-1482	13007
213-1359	15711	213-1388	13139	213-1433	13281	213-1482	13071
213-1360	13200	213-1389	13226	213-1433	15535	213-1482	13075
213-1360	13447	213-1389	13257	213-1434	13095	213-1482	13322
213-1360	15711	213-1390	13226	213-1434	13104	213-1482	15712
213-1361	13519	213-1390	13228	213-1434	13136	213-1483	13355
213-1364	13267	213-1390	13264	213-1434	13141	213-1483	13544
213-1364	13439	213-1391	15757	213-1434	13200	213-1484	13353
213-1365	13073	213-1393	13074	213-1434	13988	213-1484	13354
213-1365	13287	213-1393	13363	213-1435	13051	213-1484	13908
213-1365	13289	213-1394	13354	213-1435	13095	213-1484	15243
213-1365	15708	213-1394	13906	213-1435	13104	213-1487	13591
213-1366	15708	213-1394	13907	213-1435	13340	213-1488	13306
213-1367	13117	213-1394	13916	213-1436	13142	213-1489	15314
213-1367	13131	213-1394	15247	213-1436	13164	213-1490	13287
213-1367	15716	213-1394	15313	213-1437	13470	213-1490	13289
213-1367	15717	213-1397	13320	213-1438	13338	213-1490	15709
213-1367	15718	213-1399	13132	213-1438	13422	213-1491	13808
213-1367	15719	213-1400	13122	213-1439	13422	213-1491	15515
213-1368	13854	213-1400	13399	213-1440	13904	213-1491	15615
213-1368	15314	213-1400	15045	213-1440	15208	213-1492	13725
213-1369	13151	213-1400	15046	213-1440	15210	213-1492	13727
213-1370	13413	213-1401	13130	213-1440	15211	213-1493	13410
213-1371	13399	213-1403	13258	213-1441	13850	213-1493	13473
213-1371	15704	213-1404	13745	213-1442	13662	213-1493	13529
213-1372	13122	213-1405	13551	213-1442	13723	213-1493	13801
213-1372	13138	213-1406	13475	213-1443	13441	213-1493	15069
213-1372	13272	213-1406	13752	213-1444	13068	213-1498	13927
213-1372	15705	213-1407	13457	213-1445	13912	213-1499	13884
213-1373	13100	213-1407	13494	213-1445	13914	213-1542	13246
213-1373	13122	213-1408	13574	213-1447	13552	213-1552	15280
213-1373	13138	213-1409	13287	213-1448	13475	213-1553	15554
213-1373	13139	213-1409	13574	213-1448	15160	213-1571	13178
213-1373	13272	213-1409	13581	213-1451	13515	213-1614	13682
213-1373	13280	213-1409	13838	213-1452	13041	213-1630	15561
213-1373	13315	213-1409	13970	213-1454	13458	213-1641	15280
213-1373	15218	213-1409	15322	213-1455	13470	213-1680	13111
213-1373	15306	213-1410	13857	213-1458	13408	213-1681	13444
213-1374	13100	213-1411	13596	213-1458	13830	213-1687	15284
213-1374	13138	213-1412	13595	213-1459	15716	213-1688	13787
213-1374	13280	213-1413	13301	213-1460	15718	213-1691	13872
213-1374	13413	213-1414	13721	213-1461	13081	213-1692	13780
213-1374	15705	213-1415	13395	213-1463	13388	213-1698	13847
213-1375	13100	213-1415	13654	213-1464	13251	213-1699	13779
213-1375	13123	213-1416	13661	213-1465	13525	213-2823	16746
213-1375	13280	213-1416	13723	213-1466	13448	213-2824	15290
213-1376	13149	213-1417	13564	213-1466	15711	213-3133	15290
213-1377	13436	213-1418	15244	213-1467	13923	213-3537	15129
213-1378	13407	213-1419	13268	213-1467	15532	213-3538	15140
213-1378	13456	213-1420	13574	213-1468	13075	213-3632	15241
213-1378	13468	213-1420	13960	213-1468	13176	213-3824	15130
213-1378	13480	213-1421	13433	213-1470	13231	213-3844	15388
213-1378	13812	213-1422	13597	213-1471	13231	213-3846	15280

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Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.
AC DELCO (cont'd)		AMC (cont'd)		BMW (cont'd)		BMW (cont'd)	
213-3857	11027	3236666	12909	11 78 1 720 019	13231	11 78 7 548 961	15379
213-3866	15200	3238765	12909	11 78 1 720 536	13231	11 78 7 557 223	17124
213-3867	15142	3240083	12028	11 78 1 720 537	13052	11 78 7 557 756	17117
213-3868	15254	33000598	12909	11 78 1 720 672	13068	11 78 7 558 055	17098
213-3913	15113	33002455	12009	11 78 1 720 860	13067	11 78 7 558 073	17099
213-4116	15114	77 00 708 955	12046	11 78 1 726 321	13108	11 78 7 558 081	17094
213-4191	15449	77 00 729 963	11032	11 78 1 727 451	13109	11 78 7 558 179	16864
213-4195	15201	89 33 000 598	12909	11 78 1 730 005	13231	11 78 7 561 410	17126
213-4197	15141	89 33 002 455	12909	11 78 1 730 007	13068	11 78 7 836 394	17051
213-4203	15248	89 53 000 886	12014	11 78 1 733 628	13231	11 78 7 836 451	15339
234-4260	15111	89 53 002 106	12008	11 78 1 734 345	13231	BOSCH 10-DIGIT	
AFS20	12013	89 53 004 243	12014	11 78 1 734 390	13231	0258001025	11025
AFS20	12014	89 53 004 245	12009	11 78 1 734 393	13231	0258001025	11027
AFS21	12014	JO854136	12046	11 78 1 734 796	13069	0258001027	11027
AFS22	12014	TO708955	12046	11 78 1 735 132	15447	0258001028	11028
AFS23	12028	TO729963	11032	11 78 1 735 345	13231	0258001028	11032
AFS33	12014	AMERICAN GENERAL		11 78 1 735 499	13231	0258001028	11032
AFS48	15701	6003981	12014	11 78 1 735 500	13231	0258001031	11027
AFS73	15702	ASTON MARTIN		11 78 1 735 710	13108	0258001031	11031
AFS74	13077	XC2F-9F472-AA		11 78 1 738 282	15447	0258001032	11032
AFS75	15703	XR3F-9G444-BA		11 78 1 739 642	13231	0258001032	11032
AFS75	15703	BENTLEY		11 78 1 739 845	13755	0258001035	11035
AFS76	15700	UE 73879		11 78 1 741 317	13522	0258001035	12046
AFS81	12014	UE 74940		11 78 1 742 023	13523	0258001037	11037
AFS87	13444	UR 22163		11 78 1 742 050	13477	0258001037	11037
AFS90	15703	UR 26474		11 78 1 742 051	13475	0258001038	11032
AFS90W	13423	UT 10094		11 78 1 742 052	13475	0258001038	11038
AFS93	13027	UT 10095		11 78 1 743 994	13949	0258001041	11041
AFS94	15637	BMW		11 78 1 743 996	13752	0258001041	11051
AFS95	13474	11 62 1 308 366	13049	11 78 1 747 005	13231	0258001047	11047
AFS96	13450	11 62 1 308 367	13049	11 78 1 747 579	13231	0258001051	11051
AFS97	13444	11 76 1 277 565	11032	11 78 7 506 539	15682	0258001051	11051
AFS98	13444	11 76 1 466 063	11032	11 78 7 512 002	15321	0258001064	11964
AFS101	13450	11 76 1 707 391	13047	11 78 7 512 002	15321	0258001929	11929
AFS105	15703	11 76 1 714 772	13038	11 78 7 512 567	15442	0258001929	11964
AFS106	13474	11 78 0 872 674	13878	11 78 7 512 973	15366	0258001960	11027
AFS108	13111	11 78 1 247 235	13231	11 78 7 512 982	17160	0258001960	11960
AFS109	13474	11 78 1 247 406	13559	11 78 7 512 983	17278	0258001961	11027
AFS110	13450	11 78 1 247 475	13522	11 78 7 513 962	15668	0258001961	11961
AFS113	13111	11 78 1 277 565	11032	11 78 7 513 963	15669	0258001962	11027
AFS116	13444	11 78 1 286 638	13008	11 78 7 514 926	15680	0258001962	11962
AFS120	13450	11 78 1 286 838	13008	11 78 7 514 927	15681	0258001962	11027
AFS121	13450	11 78 1 310 838	13058	11 78 7 514 927	15681	0258001963	11963
AFS123	13444	11 78 1 310 860	13059	11 78 7 515 826	17175	0258001963	11963
AFS125	13474	11 78 1 310 838	13058	11 78 7 515 827	17176	0258001964	11964
AFS129	13483	11 78 1 310 860	13059	11 78 7 516 149	17160	0258002014	12014
AFS130	13111	11 78 1 401 276	13956	11 78 7 516 150	17149	0258002017	12017
AFS135	13474	11 78 1 405 324	13952	11 78 7 516 150	17149	0258002017	12053
AFS136	13027	11 78 1 406 621	15138	11 78 7 516 149	17160	0258002022	12022
AFS138	13026	11 78 1 406 622	13951	11 78 7 516 150	17149	0258002022	12022
AFS141	13444	11 78 1 406 981	13981	11 78 7 516 150	17149	0258002023	12023
		11 78 1 427 884	13884	11 78 7 523 434	17215	0258002023	12023
		11 78 1 433 071	13761	11 78 7 523 435	17216	0258002024	12024
		11 78 1 433 075	13477	11 78 7 524 530	15335	0258002024	12053
		11 78 1 433 940	15109	11 78 7 526 262	15167	0258002024	12053
		11 78 1 437 943	13884	11 78 7 529 980	17243	0258002028	12028
		11 78 1 468 620	13108	11 78 7 530 735	17254	0258002029	12046
		11 78 1 468 621	13231	11 78 7 530 736	17255	0258002031	12031
		11 78 1 468 630	13231	11 78 7 535 269	17028	0258002040	12040
		11 78 1 513 962	15668	11 78 7 537 984	17039	0258002041	12040
		11 78 1 702 931	13231	11 78 7 537 993	17037	0258002050	12050
		11 78 1 702 951	13231	11 78 7 539 124	17029	0258002051	12051
		11 78 1 704 259	13453	11 78 7 539 125	16793	0258002052	12052
		11 78 1 714 772	13038	11 78 7 539 126	16794	0258002052	12053
		11 78 1 714 873	13037	11 78 7 539 137	16792	0258002053	12053
		11 78 1 715 263	13047	11 78 7 540 166	17091	0258002054	12054
		11 78 1 716 114	13045	11 78 7 540 167	15168	0258002055	12055
		11 78 1 716 156	13049	11 78 7 540 168	17093	0258002061	12061
				11 78 7 544 654	16808	0258002200	12200
				11 78 7 544 655	16809	0258002201	12201
				11 78 7 545 074	16795	0258002202	12202
				11 78 7 545 075	16796	0258002203	12203
ALFA ROMEO							
0060507690	13957						
0060518131	13005						
113 1011 01600	13005						
116 8511 01600	11032						
161 2411 01601	13957						
162 2811 01600	13957						
241101601	13957						
6050 76 900	13957						
6051 81 310	13005						
60567759	13101						
60587697	13290						
60808350	13301						
AMC							
3236656	12007						



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Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.
BOSCH 10-DIGIT (cont'd)		BOSCH 10-DIGIT (cont'd)		BOSCH 10-DIGIT (cont'd)		BOSCH 10-DIGIT (cont'd)	
0258002210	12210	0258003125	15716	0258003212	13211	0258003336	15097
0258002908	12908	0258003126	13126	0258003213	13211	0258003337	13245
0258002908	12909	0258003126	15717	0258003213	13213	0258003337	13337
0258002909	12909	0258003127	15717	0258003214	13211	0258003344	13344
0258002919	12919	0258003128	13128	0258003215	13215	0258003344	13396
0258003001	13001	0258003128	15718	0258003215	13231	0258003345	13396
0258003003	13003	0258003129	15718	0258003218	13218	0258003357	13231
0258003004	13004	0258003144	13144	0258003219	13219	0258003357	13357
0258003005	13005	0258003145	13144	0258003219	13231	0258003369	13369
0258003006	13006	0258003146	13146	0258003220	13220	0258003373	13373
0258003006	13957	0258003147	13146	0258003220	13231	0258003374	15234
0258003008	13008	0258003148	13148	0258003222	13120	0258003376	13376
0258003009	13009	0258003149	13148	0258003223	13223	0258003378	13378
0258003009	13957	0258003150	13146	0258003223	15716	0258003379	13379
0258003010	13010	0258003150	13150	0258003224	15716	0258003379	15098
0258003011	13011	0258003151	13146	0258003225	13225	0258003380	13380
0258003012	13012	0258003152	13152	0258003225	15717	0258003381	13381
0258003015	13915	0258003153	13152	0258003226	15717	0258003382	13382
0258003018	13018	0258003156	13156	0258003227	13227	0258003382	13890
0258003018	13918	0258003157	13156	0258003227	15718	0258003383	13383
0258003019	13019	0258003158	13158	0258003228	15718	0258003393	13299
0258003024	13924	0258003158	13508	0258003232	13232	0258003393	13393
0258003025	13925	0258003159	13508	0258003233	13232	0258003395	13395
0258003026	13926	0258003160	13160	0258003234	13234	0258003396	13396
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0258003030	13930	0258003166	13165	0258003236	13236	0258003415	13414
0258003032	13032	0258003167	13167	0258003236	13326	0258003416	13416
0258003034	13034	0258003167	13181	0258003237	13326	0258003417	13416
0258003037	13037	0258003168	13181	0258003238	13238	0258003426	13231
0258003038	13038	0258003175	13175	0258003240	13120	0258003426	13426
0258003045	13038	0258003175	13957	0258003240	13240	0258003427	13427
0258003045	13045	0258003176	13957	0258003244	13231	0258003428	13427
0258003046	13046	0258003179	13179	0258003244	13244	0258003429	13429
0258003047	13047	0258003179	13181	0258003251	15676	0258003430	13429
0258003048	13048	0258003180	13181	0258003261	13069	0258003431	13431
0258003049	13049	0258003181	13181	0258003267	13267	0258003432	13431
0258003054	13054	0258003182	13181	0258003268	13267	0258003433	13433
0258003057	13057	0258003183	13183	0258003275	13275	0258003434	13433
0258003058	13957	0258003183	15716	0258003276	13276	0258003439	13439
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0258003059	13059	0258003185	13185	0258003277	15701	0258003443	13427
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0258003062	13957	0258003186	15717	0258003288	13288	0258003444	13427
0258003062	13062	0258003187	13187	0258003289	13267	0258003445	13445
0258003062	13231	0258003187	15718	0258003290	13290	0258003446	13842
0258003063	13019	0258003188	15718	0258003301	13301	0258003453	13453
0258003063	13063	0258003190	13190	0258003303	13216	0258003454	13454
0258003064	13064	0258003194	13194	0258003304	13216	0258003454	13842
0258003064	13231	0258003195	13195	0258003308	13308	0258003455	13842
0258003067	13067	0258003195	13429	0258003309	13309	0258003475	13475
0258003068	13068	0258003196	13429	0258003310	13231	0258003476	13475
0258003077	13077	0258003197	13197	0258003310	13310	0258003477	13477
0258003078	13078	0258003197	13429	0258003313	13313	0258003483	13482
0258003080	13080	0258003198	13429	0258003314	13314	0258003491	13491
0258003084	13084	0258003199	13199	0258003315	13314	0258003491	15717
0258003084	13924	0258003199	13427	0258003318	13318	0258003492	15717
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0258003090	13957	0258003206	13206	0258003326	13326	0258003495	15717
0258003101	13101	0258003206	13957	0258003327	13326	0258003496	15717
0258003103	13103	0258003207	13207	0258003328	13326	0258003497	13497
0258003103	13120	0258003207	13211	0258003328	13328	0258003497	15718
0258003112	13112	0258003208	13211	0258003329	13326	0258003498	15718
0258003113	13112	0258003209	13209	0258003330	13330	0258003499	13499
0258003119	13119	0258003209	13211	0258003335	13335	0258003499	15716
0258003124	13124	0258003210	13211	0258003335	15062	0258003500	15716
0258003124	15716	0258003211	13211	0258003336	13336	0258003501	13501

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Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.
BOSCH 10-DIGIT (cont'd)		BOSCH 10-DIGIT (cont'd)		BOSCH 10-DIGIT (cont'd)		BOSCH 10-DIGIT (cont'd)	
0258003501	15716	0258003655	15261	0258003861	13860	0258005063	15063
0258003502	15716	0258003656	15235	0258003862	13862	0258005074	13817
0258003508	13508	0258003657	15255	0258003863	13862	0258005083	15083
0258003509	13508	0258003661	13661	0258003864	13864	0258005084	15083
0258003515	13515	0258003684	15432	0258003865	13864	0258005088	15088
0258003516	13515	0258003685	15433	0258003890	13890	0258005089	15088
0258003517	13517	0258003689	13689	0258003891	13891	0258005090	15090
0258003522	13522	0258003692	13692	0258003893	13893	0258005091	15090
0258003523	13523	0258003693	13692	0258003894	13893	0258005092	15092
0258003524	13524	0258003696	13696	0258003913	13913	0258005093	15092
0258003525	13524	0258003696	13842	0258003915	13915	0258005094	15094
0258003529	13529	0258003697	13842	0258003918	13918	0258005095	15094
0258003530	13530	0258003702	13702	0258003924	13924	0258005097	15097
0258003530	13891	0258003703	13703	0258003925	13925	0258005098	15098
0258003542	13542	0258003721	13721	0258003926	13926	0258005099	15099
0258003543	13542	0258003723	13723	0258003930	13930	0258005109	15109
0258003546	13546	0258003724	13724	0258003931	13931	0258005138	15138
0258003546	13548	0258003724	13725	0258003931	13957	0258005139	13951
0258003547	13548	0258003725	13725	0258003942	13942	0258005160	15160
0258003548	13548	0258003726	13726	0258003943	13943	0258005161	15160
0258003549	13548	0258003726	13727	0258003950	13950	0258005175	15175
0258003550	13550	0258003727	13727	0258003953	13953	0258005176	15630
0258003551	13550	0258003734	13734	0258003957	13957	0258005182	15182
0258003552	13552	0258003734	13842	0258003973	13936	0258005183	15183
0258003553	13552	0258003735	13842	0258003980	13080	0258005184	15184
0258003559	13559	0258003736	13736	0258003994	13957	0258005202	15202
0258003561	13755	0258003737	13736	0258003994	13994	0258005203	15202
0258003564	13564	0258003738	13738	0258004042	17003	0258005211	15971
0258003568	13568	0258003738	13842	0258005003	15003	0258005212	15971
0258003577	13577	0258003739	13842	0258005004	15003	0258005245	15250
0258003580	13580	0258003740	13740	0258005005	15005	0258005253	15647
0258003581	13580	0258003741	13740	0258005006	15005	0258005271	15682
0258003582	13582	0258003751	13949	0258005008	15008	0258005288	15443
0258003583	13582	0258003752	13752	0258005008	15716	0258005289	15366
0258003584	13584	0258003757	13757	0258005009	15716	0258005297	15442
0258003585	13584	0258003757	15160	0258005010	15010	0258005298	15366
0258003590	13591	0258003758	15160	0258005010	15717	0258005305	15680
0258003591	13591	0258003771	13952	0258005011	15717	0258005306	15681
0258003592	13592	0258003782	13782	0258005012	15012	0258005309	15668
0258003592	15098	0258003783	13782	0258005012	15718	0258005310	15669
0258003593	13593	0258003784	13784	0258005013	15718	0258005310	15673
0258003593	15097	0258003785	13784	0258005014	15014	0258005313	13052
0258003594	13594	0258003788	13788	0258005014	15716	0258005321	15321
0258003594	15062	0258003789	13788	0258005015	15716	0258005322	13108
0258003597	13597	0258003790	13790	0258005016	15016	0258005323	13109
0258003598	13597	0258003791	13790	0258005016	15717	0258005324	13231
0258003599	13599	0258003794	13794	0258005017	15717	0258005327	13956
0258003600	13599	0258003794	15024	0258005018	15018	0258005328	13370
0258003603	13603	0258003795	15024	0258005018	15718	0258005329	13299
0258003603	15099	0258003797	13797	0258005018	15718	0258005334	13245
0258003606	13606	0258003798	13798	0258005020	15020	0258005335	15335
0258003606	13607	0258003799	13798	0258005020	15719	0258005339	15339
0258003606	15757	0258003802	13477	0258005021	15719	0258005370	13370
0258003607	15757	0258003802	13802	0258005022	15022	0258005475	13475
0258003620	13620	0258003806	13806	0258005022	15718	0258005475	15475
0258003620	15719	0258003811	13811	0258005023	15718	0258005700	15700
0258003621	15719	0258003811	15160	0258005024	15024	0258005701	15701
0258003630	13690	0258003812	15160	0258005025	15024	0258005702	15702
0258003631	13690	0258003817	13817	0258005026	15026	0258005703	15703
0258003638	13638	0258003819	13819	0258005027	15026	0258005704	15704
0258003639	13638	0258003820	13820	0258005049	13842	0258005705	15705
0258003640	13640	0258003823	13823	0258005049	15049	0258005706	15706
0258003641	13640	0258003824	13823	0258005050	13842	0258005707	15707
0258003642	13642	0258003842	13842	0258005052	15719	0258005708	15708
0258003643	13642	0258003843	13842	0258005058	15058	0258005709	15709
0258003645	13645	0258003854	15678	0258005059	15058	0258005710	15710
0258003654	13654	0258003860	13860	0258005062	15062	0258005711	15711



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Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.
BOSCH 10-DIGIT (cont'd)		BOSCH 10-DIGIT (cont'd)		BOSCH 10-DIGIT (cont'd)		BOSCH 10-DIGIT (cont'd)	
0258005712	15712	0258005861	15983	0258006093	16283	0258006291	16291
0258005713	15713	0258005863	15863	0258006123	16123	0258006292	16292
0258005713	15716	0258005863	15873	0258006124	16123	0258006296	16296
0258005714	15714	0258005865	15865	0258006125	16125	0258006297	16296
0258005714	15717	0258005865	15961	0258006126	16125	0258006300	16300
0258005715	15715	0258005869	15769	0258006133	16249	0258006302	16302
0258005715	15718	0258005869	15869	0258006139	16139	0258006305	16305
0258005716	15716	0258005875	15875	0258006139	16255	0258006306	16305
0258005717	15717	0258005875	15975	0258006140	16255	0258006307	16307
0258005718	15718	0258005877	15877	0258006141	16257	0258006308	16307
0258005719	15719	0258005877	15973	0258006146	16146	0258006312	16067
0258005720	13474	0258005879	13273	0258006159	16159	0258006313	16067
0258005721	13127	0258005879	15879	0258006160	16159	0258006314	16069
0258005722	13100	0258005880	13273	0258006161	16119	0258006315	16069
0258005725	15725	0258005882	15881	0258006161	16121	0258006318	16318
0258005726	15726	0258005937	15937	0258006162	16121	0258006319	16318
0258005727	15727	0258005938	15937	0258006165	13117	0258006320	16320
0258005728	15728	0258005939	15939	0258006167	16167	0258006321	16320
0258005729	15729	0258005939	15949	0258006168	16167	0258006322	16322
0258005730	15730	0258005940	15949	0258006173	16173	0258006323	16322
0258005731	15731	0258005941	15389	0258006174	16174	0258006324	16324
0258005732	15732	0258005943	15943	0258006175	16175	0258006325	16324
0258005734	13131	0258005945	13968	0258006179	16179	0258006328	16328
0258005735	13133	0258005947	15367	0258006180	16179	0258006329	16328
0258005736	13272	0258005949	15949	0258006183	16183	0258006330	16330
0258005737	13280	0258005953	15953	0258006184	16183	0258006331	16330
0258005738	13444	0258005955	15955	0258006196	16196	0258006334	16334
0258005739	13450	0258005957	15957	0258006197	16197	0258006335	16334
0258005740	13111	0258005959	15959	0258006199	16199	0258006348	16348
0258005773	15773	0258005961	15961	0258006200	16200	0258006349	16348
0258005773	15871	0258005963	15963	0258006205	16205	0258006353	16353
0258005775	15775	0258005965	15965	0258006213	16213	0258006354	16353
0258005775	15975	0258005967	15967	0258006214	16213	0258006359	16359
0258005779	15716	0258005969	15963	0258006237	16109	0258006360	16359
0258005779	15779	0258005969	15969	0258006238	16109	0258006363	16363
0258005780	15716	0258005973	15973	0258006243	16243	0258006364	16363
0258005781	15717	0258005975	15975	0258006244	16243	0258006371	16371
0258005781	15781	0258005977	15871	0258006245	16121	0258006372	16371
0258005782	15717	0258005979	15881	0258006246	16121	0258006373	16373
0258005785	15716	0258005981	15769	0258006247	16247	0258006374	16373
0258005785	15785	0258005981	15981	0258006248	16247	0258006378	16378
0258005786	15716	0258005983	15983	0258006249	16249	0258006379	16379
0258005787	15717	0258005985	15867	0258006250	16249	0258006392	16392
0258005787	15787	0258005993	13311	0258006255	16255	0258006393	16392
0258005788	15717	0258005993	15803	0258006256	16255	0258006400	16400
0258005789	15719	0258005995	13482	0258006257	16257	0258006401	16400
0258005789	15789	0258005997	13420	0258006258	16257	0258006404	16404
0258005790	15719	0258005997	15102	0258006259	16259	0258006405	16404
0258005791	15718	0258005997	15997	0258006260	16259	0258006406	16406
0258005791	15791	0258006023	16287	0258006261	16261	0258006407	16406
0258005792	15718	0258006035	13695	0258006262	16261	0258006412	16412
0258005797	15797	0258006037	16037	0258006268	16268	0258006413	16412
0258005797	15959	0258006037	16213	0258006269	16268	0258006416	16416
0258005798	15959	0258006038	16213	0258006272	16272	0258006417	16416
0258005805	15718	0258006039	16039	0258006273	16272	0258006418	16418
0258005805	15805	0258006040	16039	0258006274	16274	0258006419	16418
0258005806	15718	0258006048	17036	0258006275	16274	0258006420	16420
0258005807	15718	0258006050	16197	0258006276	16276	0258006421	16420
0258005807	15807	0258006051	16051	0258006277	16276	0258006422	16422
0258005808	15718	0258006051	16198	0258006281	16281	0258006423	16422
0258005809	15719	0258006055	16055	0258006282	16281	0258006427	16198
0258005809	15809	0258006056	16055	0258006283	16283	0258006432	16432
0258005810	15719	0258006063	16063	0258006284	16283	0258006433	16433
0258005859	15769	0258006064	16064	0258006285	16091	0258006435	16435
0258005859	15859	0258006065	16065	0258006286	16091	0258006438	16438
0258005860	15769	0258006066	16066	0258006287	16287	0258006439	16438
0258005861	15861	0258006087	16305	0258006288	16287	0258006442	16442

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Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.
BOSCH 10-DIGIT (cont'd)		BOSCH 10-DIGIT (cont'd)		BOSCH 10-DIGIT (cont'd)		BOSCH 10-DIGIT (cont'd)	
0258006443	16442	0258006682	16682	0258007090	17090	0258007227	17227
0258006444	16444	0258006697	16697	0258007091	17090	0258007228	17227
0258006445	16444	0258006698	16698	0258007095	17095	0258007229	17229
0258006446	16446	0258006699	16699	0258007096	17095	0258007230	17229
0258006447	16447	0258006700	16700	0258007097	17097	0258007233	17233
0258006448	16448	0258006701	16700	0258007098	17097	0258007234	17234
0258006452	16452	0258006702	16702	0258007101	17101	0258007235	17235
0258006453	16452	0258006703	16702	0258007102	17101	0258007236	17235
0258006456	16456	0258006703	16703	0258007105	17105	0258007237	17237
0258006469	16363	0258006704	16704	0258007106	17105	0258007238	17237
0258006469	16469	0258006717	16717	0258007109	17109	0258007239	15176
0258006470	16363	0258006726	16726	0258007110	17109	0258007240	15667
0258006473	16473	0258006727	16727	0258007113	17113	0258007243	17243
0258006474	16473	0258006728	16727	0258007114	17113	0258007244	17244
0258006475	16475	0258006729	16729	0258007116	17116	0258007245	17244
0258006476	16475	0258006730	16729	0258007117	17116	0258007246	17246
0258006488	16488	0258006741	16741	0258007121	17121	0258007247	17246
0258006495	16495	0258006746	16746	0258007125	17125	0258007254	17254
0258006498	16498	0258006747	16747	0258007126	17125	0258007255	17255
0258006506	16506	0258006749	16749	0258007134	17134	0258007256	17256
0258006511	16511	0258006750	16749	0258007135	17135	0258007257	17256
0258006512	16511	0258006755	15167	0258007136	17136	0258007258	17258
0258006513	16513	0258006757	16532	0258007137	17137	0258007260	17260
0258006514	16513	0258006785	16785	0258007138	17138	0258007262	17262
0258006515	16515	0258006792	16792	0258007139	17138	0258007264	17264
0258006516	16515	0258006793	16793	0258007140	17140	0258007275	17275
0258006517	16517	0258006794	16794	0258007141	17140	0258007276	17276
0258006518	16517	0258006795	16795	0258007144	17144	0258007278	17278
0258006525	16550	0258006796	16796	0258007144	17160	0258007300	17300
0258006526	16550	0258006808	16808	0258007146	17146	0258007307	17307
0258006527	16554	0258006809	16809	0258007146	17149	0258007517	17517
0258006528	16554	0258006816	16816	0258007149	17149	0258007518	17518
0258006534	15494	0258006817	16816	0258007150	17149	0258017014	17004
0258006541	16541	0258006825	16825	0258007157	17157	0258017015	17004
0258006544	16544	0258006829	16829	0258007158	17158	0258017016	17016
0258006545	16544	0258006830	16829	0258007160	17160	0258017017	17016
0258006557	16557	0258006831	16831	0258007161	17161	0258017018	17019
0258006558	16557	0258006832	16831	0258007163	17163	0258017020	17020
0258006559	16559	0258006833	16833	0258007174	17174	0258017025	17025
0258006560	16559	0258006834	16833	0258007175	17175	0258017028	17028
0258006575	16575	0258006835	16385	0258007176	17176	0258017029	17029
0258006582	16582	0258006837	16837	0258007177	17177	0258017030	17030
0258006583	16582	0258006838	16837	0258007179	17179	0258017032	17032
0258006584	16584	0258006839	16839	0258007180	17179	0258017033	17032
0258006585	16584	0258006840	16839	0258007183	17183	0258017036	17037
0258006586	16586	0258006862	16862	0258007184	17183	0258017038	17039
0258006587	16587	0258006863	16862	0258007185	17185	0258017044	17045
0258006589	16589	0258006895	16895	0258007185	17264	0258017045	17045
0258006590	16589	0258006915	15124	0258007186	17264	0258017046	17046
0258006591	16591	0258007001	17001	0258007188	17188	0258017047	17046
0258006592	16591	0258007009	17009	0258007189	17189	0258017051	17051
0258006596	16596	0258007009	17036	0258007191	17191	0258017053	17054
0258006609	16609	0258007018	17018	0258007192	17191	0258017054	17054
0258006610	16609	0258007033	17033	0258007193	17193	0258017055	17055
0258006621	16623	0258007033	17137	0258007194	17193	0258017056	17055
0258006622	16624	0258007034	17034	0258007201	17201	0258017057	17057
0258006623	16623	0258007035	17035	0258007204	17204	0258017058	17057
0258006624	16624	0258007036	17036	0258007205	17204	0258017059	17059
0258006658	15122	0258007038	17038	0258007206	17205	0258017060	17059
0258006659	16659	0258007044	17044	0258007207	15493	0258017061	17061
0258006660	16659	0258007053	17053	0258007208	17208	0258017062	17061
0258006661	16661	0258007054	17053	0258007215	17215	0258017068	17068
0258006663	16663	0258007057	17014	0258007216	17216	0258017069	17068
0258006665	16665	0258007058	17014	0258007221	17221	0258017070	17071
0258006667	16667	0258007070	17070	0258007222	17221	0258017071	17071
0258006669	16669	0258007085	17085	0258007223	17223	0258017082	17082
0258006671	16671	0258007086	17085	0258007224	17223	0258017083	17082



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Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.
BOSCH 10-DIGIT (cont'd)		BOSCH 10-DIGIT (cont'd)		BOSCH 10-DIGIT (cont'd)		BOSCH 10-DIGIT (cont'd)	
0258017084	17084	0258986675	13885	F00HL00090	13198	F00HL00205	13505
0258017085	17084	0258986676	13937	F00HL00091	12211	F00HL00206	13562
0258017086	17086	0258986678	15263	F00HL00092	12105	F00HL00207	13718
0258017088	17088	0258986679	13338	F00HL00093	13138	F00HL00208	13610
0258017091	17091	0258986680	16197	F00HL00100	13191	F00HL00209	13670
0258017092	15168	0258986681	13363	F00HL00102	13039	F00HL00210	13664
0258017093	17093	0258986683	15290	F00HL00103	13394	F00HL00211	15306
0258017098	17098	0258986690	15825	F00HL00104	13257	F00HL00216	15287
0258017099	17099	0258987000	17070	F00HL00106	13029	F00HL00217	15634
0258017161	17161	0281004001	17002	F00HL00107	12107	F00HL00218	15295
0258986007	13458	0281004003	17002	F00HL00108	13264	F00HL00221	15369
0258986601	13662	0986258000	13110	F00HL00109	13320	F00HL00222	13672
0258986602	15733	F00HL00000	13420	F00HL00111	15284	F00HL00223	13687
0258986603	13117	F00HL00000	13827	F00HL00112	13483	F00HL00225	15224
0258986604	13075	F00HL00001	13420	F00HL00114	13224	F00HL00227	15445
0258986605	13007	F00HL00002	15757	F00HL00115	12109	F00HL00230	15327
0258986606	13354	F00HL00004	15769	F00HL00117	13228	F00HL00234	15225
0258986607	13353	F00HL00006	13420	F00HL00118	13795	F00HL00235	15282
0258986608	13178	F00HL00010	15873	F00HL00119	13571	F00HL00237	13969
0258986609	13193	F00HL00014	15857	F00HL00120	13284	F00HL00238	13278
0258986611	13539	F00HL00016	13273	F00HL00121	13123	F00HL00239	15615
0258986612	13249	F00HL00018	13311	F00HL00122	13469	F00HL00247	13422
0258986613	13056	F00HL00019	13311	F00HL00123	13226	F00HL00248	13581
0258986614	13104	F00HL00020	13418	F00HL00126	13374	BWD	
0258986617	15739	F00HL00021	13418	F00HL00127	12102	OS100	12909
0258986618	13355	F00HL00022	15819	F00HL00128	13470	OS101	12919
0258986619	13340	F00HL00024	15466	F00HL00129	15465	OS102	12014
0258986620	13095	F00HL00025	15466	F00HL00130	13091	OS102	15701
0258986621	13812	F00HL00026	15467	F00HL00135	13838	OS104	12909
0258986622	13804	F00HL00027	15467	F00HL00137	13348	OS105	12007
0258986624	13051	F00HL00030	12046	F00HL00139	13407	OS105	12028
0258986625	15664	F00HL00031	12046	F00HL00141	13404	OS106	11051
0258986627	13461	F00HL00032	15470	F00HL00147	15076	OS106	12046
0258986628	13682	F00HL00034	13115	F00HL00148	13350	OS107	11051
0258986629	13694	F00HL00035	13053	F00HL00149	13362	OS108	12006
0258986630	15543	F00HL00036	13030	F00HL00150	13312	OS109	13942
0258986631	13361	F00HL00037	13022	F00HL00151	15476	OS110	13913
0258986633	15360	F00HL00038	15820	F00HL00152	15514	OS111	11032
0258986634	13417	F00HL00039	15820	F00HL00153	15600	OS111	11051
0258986635	13176	F00HL00040	15821	F00HL00154	13753	OS112	12054
0258986636	13534	F00HL00041	15821	F00HL00155	15659	OS113	12054
0258986637	15479	F00HL00042	13317	F00HL00156	15314	OS114	12203
0258986638	13132	F00HL00043	13155	F00HL00157	15266	OS115	13190
0258986639	13618	F00HL00044	13242	F00HL00158	15365	OS116	13953
0258986640	13520	F00HL00046	13026	F00HL00159	12108	OS117	12008
0258986641	13644	F00HL00047	13027	F00HL00160	13504	OS118	12009
0258986642	13558	F00HL00048	13122	F00HL00161	13754	OS119	13010
0258986643	13489	F00HL00049	13399	F00HL00162	13547	OS120	13077
0258986644	13455	F00HL00050	13598	F00HL00163	13572	OS125	13275
0258986645	15285	F00HL00052	13149	F00HL00166	15536	OS126	15706
0258986646	15518	F00HL00053	13250	F00HL00167	15462	OS127	15707
0258986647	13441	F00HL00054	15814	F00HL00168	15582	OS128	15703
0258986648	15487	F00HL00055	15736	F00HL00169	15310	OS129	15701
0258986649	13751	F00HL00056	15737	F00HL00170	15637	OS133	15702
0258986651	13425	F00HL00057	15738	F00HL00172	12019	OS134	15716
0258986652	13412	F00HL00060	13289	F00HL00175	13756	OS134	15718
0258986654	15583	F00HL00061	13287	F00HL00178	13371	OS136	15718
0258986655	13822	F00HL00061	13971	F00HL00180	13377	OS137	12061
0258986661	13136	F00HL00063	13073	F00HL00181	13256	OS139	15708
0258986662	13619	F00HL00065	13436	F00HL00186	15028	OS141	15704
0258986663	13071	F00HL00080	13153	F00HL00191	13410	OS142	13275
0258986664	13685	F00HL00081	13200	F00HL00192	13801	OS143	13480
0258986665	13258	F00HL00083	15735	F00HL00196	12112	OS144	13153
0258986667	15635	F00HL00085	13315	F00HL00198	13879	OS145	13155
0258986668	13500	F00HL00086	13413	F00HL00199	13887	OS151	12038
0258986669	13035	F00HL00088	13055	F00HL00201	15503	OS155	13425
0258986672	13041	F00HL00089	12043	F00HL00202	15377		

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Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.
BWD (cont'd)		BWD (cont'd)		BWD (cont'd)		BWD (cont'd)	
OS156	13417	OS551	13924	OS663	13108	OS834	13075
OS157	13428	OS552	13048	OS667	13453	OS835	13947
OS157	13460	OS554	13924	OS669	12053	OS837	13529
OS159	13317	OS555	13058	OS670	15098	OS838	13891
OS160	13317	OS557	13148	OS673	13522	OS844	13523
OS161	15704	OS562	13957	OS675	15322	OS847	13574
OS167	13127	OS563	13156	OS676	13362	OS847	13838
OS170	15717	OS566	13930	OS677	15709	OS849	13576
OS175	13041	OS567	13299	OS678	13551	OS851	13574
OS176	13133	OS568	13314	OS679	12061	OS853	15719
OS183	13407	OS570	13160	OS680	13289	OS854	13457
OS185	15704	OS572	12022	OS681	15708	OS856	13830
OS186	13413	OS572	12053	OS682	12035	OS857	13460
OS188	15704	OS572	13963	OS683	13756	OS858	13425
OS189	13317	OS577	13146	OS684	13970	OS859	13818
OS190	13131	OS579	13429	OS685	15322	OS860	13473
OS192	15704	OS581	13152	OS687	12102	OS861	13801
OS198	15314	OS583	13120	OS688	12102	OS862	13383
OS199	13289	OS584	13276	OS689	12102	OS863	13548
OS200	13578	OS586	13308	OS690	12108	OS864	13515
OS203	13138	OS590	12039	OS690	12201	OS866	13801
OS205	13399	OS591	13250	OS691	12108	OS867	13539
OS207	13960	OS593	12201	OS692	12102	OS868	13745
OS208	13287	OS594	15711	OS692	13836	OS869	13096
OS212	15432	OS595	12201	OS692	13903	OS871	13228
OS213	15433	OS596	13200	OS693	13547	OS872	12046
OS214	13483	OS597	13421	OS693	13583	OS873	13250
OS216	13474	OS599	13401	OS694	13859	OS875	13577
OS219	15718	OS602	15237	OS695	13030	OS876	12043
OS221	15675	OS604	13313	OS697	13783	OS877	13364
OS223	13284	OS607	13370	OS697	13848	OS879	13366
OS225	13306	OS608	15097	OS698	13420	OS881	13039
OS230	13450	OS612	13326	OS699	13091	OS882	13055
OS231	13111	OS615	13500	OS699	13617	OS883	13053
OS506	12051	OS616	13073	OS699	13635	OS885	13151
OS507	12053	OS620	12201	OS699	13657	OS885	13890
OS508	12051	OS621	13525	OS700	11027	OS888	13801
OS509	12053	OS622	12202	OS700	12053	OS889	13721
OS510	12050	OS623	13519	OS701	12014	OS890	13218
OS510	12055	OS624	12014	OS701	12203	OS890	13598
OS510	15396	OS626	12108	OS800	13416	OS891	13433
OS511	13008	OS627	13056	OS801	13418	OS892	13599
OS512	13957	OS629	13539	OS803	13791	OS892	16324
OS513	13005	OS629	15710	OS806	13662	OS893	15024
OS514	13004	OS630	13938	OS808	13740	OS894	13388
OS515	13003	OS631	13938	OS809	13723	OS895	13468
OS516	13001	OS633	13184	OS810	15026	OS896	13812
OS519	13012	OS635	13211	OS810	15160	OS897	12061
OS520	13047	OS636	13211	OS811	13395	OS898	12019
OS521	13037	OS637	13211	OS812	13290	OS899	13385
OS521	13918	OS638	13181	OS813	13564	OS900	13791
OS522	13019	OS639	13267	OS813	17044	OS901	13791
OS526	13034	OS640	13447	OS814	13309	OS902	13539
OS528	13045	OS640	15711	OS815	13301	OS903	13025
OS530	13049	OS642	13231	OS815	13725	OS903	13246
OS531	13052	OS646	13539	OS816	13661	OS904	13839
OS536	13231	OS647	13380	OS817	15099	OS905	13841
OS537	13078	OS649	13539	OS818	13517	OS906	13843
OS540	13925	OS650	13957	OS819	13654	OS907	13844
OS541	13101	OS653	13381	OS820	15703	OS908	13745
OS541	13926	OS656	12023	OS827	13480	OS909	13571
OS543	13957	OS656	12053	OS828	13439	OS910	15540
OS544	13936	OS656	12111	OS829	13249	OS911	13736
OS547	13067	OS657	13238	OS829	15710	OS913	16320
OS548	13915	OS659	13373	OS830	13007	OS914	13218
OS549	13054	OS660	13245	OS831	13977	OS915	13815
OS550	13165	OS661	13120	OS832	13539	OS916	13801



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Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.
BWD (cont'd)		BWD (cont'd)		BWD (cont'd)		BWD (cont'd)	
OS917	13816	OS1004	15209	OS1075	13972	OS1208	13353
OS918	15222	OS1005	13850	OS1076	13117	OS1226	13896
OS919	13815	OS1006	13477	OS1088	15975	OS1228	13392
OS920	13809	OS1007	13029	OS1089	15871	OS1228	15534
OS921	15223	OS1008	13026	OS1091	13493	OS1231	13056
OS922	15348	OS1009	13022	OS1092	13176	OS1232	13104
OS923	15220	OS1010	13022	OS1094	13597	OS1241	13353
OS924	13584	OS1011	13455	OS1095	13893	OS1241	15215
OS925	13842	OS1012	15819	OS1097	13638	OS1243	13354
OS928	15583	OS1013	15664	OS1097	13642	OS1271	13404
OS932	13387	OS1016	15857	OS1098	13782	OS1272	13404
OS935	13353	OS1017	15881	OS1100	13798	OS1283	13050
OS936	13198	OS1018	13436	OS1101	13790	OS1290	13043
OS937	13550	OS1019	13149	OS1102	13860	OS1357	13703
OS938	13552	OS1020	13413	OS1105	15003	OS1357	13797
OS940	13582	OS1021	13122	OS1106	15083	OS1358	13404
OS941	13396	OS1023	13138	OS1106	16179	OS1388	16121
OS942	13524	OS1023	13139	OS1107	15088	OS1388	16249
OS943	13692	OS1024	13134	OS1108	15090	OS1416	13714
OS944	13791	OS1024	13138	OS1109	15092	OS1418	13520
OS945	13081	OS1024	13272	OS1110	15094	OS1421	15825
OS945	15532	OS1025	13132	OS1112	12040	OS1422	13342
OS946	13311	OS1025	13320	OS1113	13788	OS1424	13902
OS947	13690	OS1026	13130	OS1115	15973	OS1425	13104
OS948	13591	OS1027	13100	OS1117	13460	OS1426	15217
OS950	13021	OS1027	13123	OS1118	13460	OS1427	13588
OS950	13791	OS1030	13280	OS1119	15072	OS1428	13586
OS951	13264	OS1031	15705	OS1120	13948	OS1430	12105
OS954	13727	OS1032	13857	OS1121	13273	OS1432	15271
OS955	13268	OS1033	13549	OS1121	15769	OS1433	13957
OS957	13355	OS1034	13363	OS1129	13038	OS1435	13937
OS958	13354	OS1035	13475	OS1130	13581	OS1436	13540
OS958	13355	OS1036	13459	OS1131	13460	OS1437	13470
OS959	12102	OS1037	13458	OS1131	13832	OS1438	13448
OS959	13353	OS1038	13340	OS1133	15705	OS1440	12002
OS961	13441	OS1039	13200	OS1134	13122	OS1441	16305
OS964	13422	OS1040	13278	OS1135	13139	OS1443	13968
OS966	13200	OS1041	13271	OS1136	13100	OS1444	15955
OS967	13198	OS1041	15757	OS1137	15218	OS1445	13805
OS968	13355	OS1042	15757	OS1138	13280	OS1446	13916
OS972	13276	OS1043	15278	OS1139	13315	OS1449	13470
OS973	13420	OS1044	13258	OS1140	13413	OS1451	15347
OS974	13273	OS1045	13254	OS1144	13745	OS1453	13311
OS975	13242	OS1046	13251	OS1145	13258	OS1453	13673
OS975	13260	OS1047	13249	OS1146	13363	OS1457	15554
OS975	13327	OS1049	13176	OS1147	13249	OS1458	13682
OS975	13329	OS1050	13095	OS1148	12109	OS1459	15543
OS978	13663	OS1051	13071	OS1149	12109	OS1461	15285
OS979	13257	OS1052	13176	OS1152	15287	OS1462	15549
OS981	13261	OS1053	13093	OS1153	13258	OS1463	13494
OS983	13224	OS1055	13095	OS1154	15319	OS1468	13687
OS983	13641	OS1056	13093	OS1155	13854	OS1469	15825
OS984	13659	OS1057	13074	OS1156	15769	OS1470	13671
OS987	13302	OS1059	13579	OS1157	15757	OS1471	13672
OS990	13252	OS1060	13752	OS1166	13249	OS1472	13670
OS991	13007	OS1061	13559	OS1167	15247	OS1473	15280
OS991	13322	OS1063	15881	OS1170	15207	OS1474	13193
OS991	15712	OS1064	15961	OS1171	15385	OS1476	15719
OS992	13226	OS1065	15959	OS1172	15446	OS1479	13743
OS993	13598	OS1066	13420	OS1173	15873	OS1480	13316
OS995	13937	OS1067	13823	OS1175	13255	OS1481	15465
OS996	13789	OS1069	13581	OS1176	13420	OS1482	13718
OS997	13789	OS1070	13595	OS1181	13596	OS1483	13687
OS999	13482	OS1071	13111	OS1194	15076	OS1484	13717
OS1001	13927	OS1072	13444	OS1198	13353	OS1485	13123
OS1002	13791	OS1073	13450	OS1201	13353	OS1486	13610
OS1003	15448	OS1074	13027	OS1207	12050	OS1487	13670

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Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.
BWD (cont'd)		BWD (cont'd)		BWD (cont'd)		BWD (cont'd)	
OS1488.	13762	OS1556.	13354	OS1630.	13795	OS1698.	13637
OS1489.	13664	OS1556.	15089	OS1631.	13417	OS1699.	13656
OS1490.	13937	OS1557.	13898	OS1632.	13801	OS1700.	13675
OS1491.	13687	OS1558.	13355	OS1633.	13801	OS1701.	13658
OS1492.	13709	OS1559.	13141	OS1634.	15359	OS1702.	13659
OS1493.	15306	OS1561.	13904	OS1635.	13408	OS1703.	13653
OS1494.	13687	OS1563.	15239	OS1636.	13801	OS1704.	13659
OS1495.	13610	OS1565.	13737	OS1637.	15514	OS1705.	13666
OS1496.	13610	OS1566.	13613	OS1638.	15514	OS1707.	15949
OS1497.	13458	OS1567.	13104	OS1639.	13410	OS1709.	15821
OS1499.	13540	OS1568.	13634	OS1640.	16069	OS1710.	15983
OS1500.	15290	OS1569.	13619	OS1641.	13796	OS1711.	16513
OS1501.	15290	OS1570.	13619	OS1642.	13412	OS1713.	15943
OS1502.	15289	OS1571.	13619	OS1642.	13822	OS1715.	15937
OS1503.	15290	OS1572.	15274	OS1644.	16261	OS1716.	16511
OS1504.	15309	OS1573.	15276	OS1645.	17053	OS1718.	17179
OS1505.	13969	OS1574.	15423	OS1646.	13322	OS1719.	15963
OS1506.	13371	OS1575.	13142	OS1647.	13801	OS1720.	15967
OS1507.	15310	OS1576.	13556	OS1648.	15413	OS1722.	15867
OS1508.	13494	OS1578.	13104	OS1649.	16213	OS1722.	15957
OS1509.	15308	OS1579.	13622	OS1650.	16255	OS1723.	15965
OS1510.	13733	OS1580.	13910	OS1651.	17014	OS1724.	13694
OS1511.	13735	OS1581.	13178	OS1652.	13300	OS1725.	15410
OS1512.	12200	OS1583.	13900	OS1653.	15109	OS1726.	13907
OS1513.	13355	OS1584.	13613	OS1655.	16109	OS1727.	13997
OS1514.	13613	OS1585.	13340	OS1656.	15284	OS1728.	15270
OS1515.	13613	OS1586.	15415	OS1657.	16292	OS1729.	15269
OS1516.	13613	OS1587.	13104	OS1658.	16291	OS1730.	13338
OS1517.	13737	OS1588.	13104	OS1659.	13804	OS1731.	15316
OS1518.	13998	OS1589.	13136	OS1660.	15403	OS1732.	13906
OS1519.	15294	OS1591.	13355	OS1661.	15407	OS1733.	13544
OS1520.	15295	OS1592.	13355	OS1662.	15394	OS1735.	13970
OS1521.	16065	OS1593.	13104	OS1662.	15405	OS1736.	15431
OS1522.	15487	OS1594.	15417	OS1663.	13680	OS1738.	13262
OS1523.	12106	OS1595.	15418	OS1665.	13677	OS1739.	15263
OS1524.	13928	OS1596.	15416	OS1666.	13075	OS1740.	15427
OS1525.	16146	OS1597.	13104	OS1667.	15408	OS1741.	15314
OS1525.	16379	OS1598.	15414	OS1670.	15401	OS1742.	15428
OS1526.	16378	OS1599.	13095	OS1671.	13639	OS1743.	13651
OS1527.	16063	OS1600.	13618	OS1672.	13685	OS1744.	13374
OS1528.	13912	OS1601.	15275	OS1673.	13256	OS1746.	15327
OS1528.	13914	OS1602.	15217	OS1674.	13680	OS1747.	15323
OS1529.	15242	OS1604.	13353	OS1675.	13706	OS1748.	15325
OS1530.	13720	OS1606.	13565	OS1676.	13377	OS1749.	13996
OS1531.	13733	OS1607.	13461	OS1677.	15400	OS1750.	13650
OS1532.	13613	OS1609.	13745	OS1678.	15398	OS1751.	13863
OS1533.	13540	OS1610.	13749	OS1679.	13256	OS1752.	15708
OS1534.	13104	OS1611.	13461	OS1680.	13965	OS1753.	13353
OS1535.	13095	OS1612.	13747	OS1681.	15393	OS1754.	13646
OS1536.	13989	OS1613.	13754	OS1682.	13978	OS1755.	13632
OS1537.	13988	OS1614.	13752	OS1683.	13074	OS1756.	13917
OS1538.	15210	OS1614.	13753	OS1684.	13678	OS1757.	15247
OS1539.	13104	OS1615.	13751	OS1685.	13676	OS1758.	13558
OS1540.	13104	OS1616.	13753	OS1686.	13704	OS1759.	13268
OS1541.	13355	OS1617.	15245	OS1686.	15409	OS1760.	13970
OS1542.	13986	OS1618.	13746	OS1687.	13974	OS1761.	13630
OS1543.	15211	OS1619.	13748	OS1688.	13093	OS1762.	13531
OS1544.	15212	OS1620.	13710	OS1688.	13938	OS1763.	13921
OS1545.	13104	OS1621.	15301	OS1689.	15283	OS1764.	15313
OS1546.	13615	OS1622.	15439	OS1690.	15285	OS1765.	15243
OS1547.	13566	OS1623.	15300	OS1691.	15543	OS1766.	13279
OS1550.	13095	OS1624.	15299	OS1692.	13979	OS1767.	13489
OS1551.	15208	OS1625.	13672	OS1693.	13680	OS1768.	15272
OS1552.	13095	OS1626.	15297	OS1694.	13256	OS1769.	13562
OS1553.	13104	OS1627.	13805	OS1695.	13256	OS1770.	13348
OS1554.	13164	OS1628.	13417	OS1696.	13060	OS1771.	13505
OS1555.	15273	OS1629.	13796	OS1697.	13007	OS1773.	15244



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Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.
BWD (cont'd)		BWD (cont'd)		BWD (cont'd)		BWD (cont'd)	
OS1774.	13732	OS1858.	15360	OS1940.	15501	OS2028.	13791
OS1775.	13441	OS1859.	13068	OS1941.	15537	OS2029.	13703
OS1776.	13647	OS1861.	15257	OS1942.	15926	OS2030.	13532
OS1780.	13489	OS1863.	13884	OS1944.	13992	OS2031.	11047
OS1781.	13643	OS1866.	13949	OS1946.	13504	OS2033.	13487
OS1782.	15071	OS1867.	15358	OS1947.	13755	OS2034.	13534
OS1783.	13919	OS1868.	15462	OS1948.	15217	OS2035.	13136
OS1785.	15873	OS1869.	15615	OS1950.	13469	OS2036.	13200
OS1786.	15820	OS1871.	15583	OS1951.	15312	OS2037.	13138
OS1788.	13964	OS1873.	13417	OS1952.	13952	OS2039.	13200
OS1789.	15265	OS1874.	15456	OS1953.	13951	OS2040.	13200
OS1790.	13886	OS1875.	13805	OS1954.	13639	OS2041.	12102
OS1791.	15266	OS1876.	15357	OS1955.	13275	OS2042.	13200
OS1792.	13887	OS1877.	13812	OS1958.	13115	OS2046.	15535
OS1793.	13596	OS1878.	13456	OS1959.	15709	OS2047.	15705
OS1794.	13870	OS1879.	13807	OS1960.	12061	OS2048.	13687
OS1795.	15429	OS1880.	13808	OS1961.	13155	OS2049.	12023
OS1796.	13866	OS1881.	15458	OS1962.	13413	OS2050.	13458
OS1797.	13287	OS1882.	13822	OS1963.	13317	OS2051.	13458
OS1799.	13879	OS1883.	15452	OS1964.	15708	OS2052.	13459
OS1800.	13551	OS1884.	15354	OS1966.	13138	OS2053.	13458
OS1801.	13859	OS1885.	15353	OS1969.	15704	OS2054.	13859
OS1802.	13551	OS1886.	15349	OS1970.	13317	OS2055.	13859
OS1803.	15315	OS1888.	15352	OS1973.	12053	OS2056.	13184
OS1805.	15430	OS1889.	15350	OS1975.	12041	OS2056.	13938
OS1806.	15328	OS1890.	13412	OS1976.	12046	OS2057.	13256
OS1807.	15326	OS1891.	13412	OS1978.	13363	OS2057.	13377
OS1810.	13589	OS1892.	13956	OS1979.	13176	OS2058.	13363
OS1813.	13962	OS1895.	16322	OS1980.	13071	OS2059.	13362
OS1814.	13581	OS1896.	16272	OS1982.	13198	OS2059.	15322
OS1816.	13885	OS1898.	13640	OS1983.	12109	OS2061.	15479
OS1817.	15314	OS1899.	16268	OS1985.	13198	OS2062.	13249
OS1820.	15282	OS1900.	16123	OS1986.	13200	OS2063.	13007
OS1821.	13075	OS1901.	16274	OS1987.	13104	OS2063.	13938
OS1822.	13652	OS1902.	16353	OS1988.	13104	OS2064.	15099
OS1823.	15701	OS1903.	13862	OS1989.	13104	OS2065.	15717
OS1824.	16173	OS1904.	16276	OS1990.	13695	OS2066.	13707
OS1825.	13817	OS1905.	16167	OS1994.	13191	OS2067.	15710
OS1826.	16174	OS1908.	13864	OS1995.	13051	OS2068.	15406
OS1827.	16175	OS1910.	16125	OS1996.	13056	OS2069.	15217
OS1828.	15063	OS1911.	13784	OS1997.	13191	OS2070.	15541
OS1829.	13376	OS1912.	16318	OS1998.	13178	OS2071.	13350
OS1830.	17035	OS1913.	16183	OS1999.	15769	OS2072.	13937
OS1831.	17034	OS1915.	15058	OS2001.	13059	OS2073.	13540
OS1832.	13892	OS1916.	13361	OS2002.	13144	OS2074.	12113
OS1833.	13287	OS1917.	13055	OS2003.	13330	OS2075.	15247
OS1834.	13889	OS1918.	13191	OS2004.	13674	OS2077.	12100
OS1835.	15262	OS1919.	15267	OS2006.	15634	OS2078.	13176
OS1836.	13868	OS1920.	13581	OS2007.	13701	OS2079.	13447
OS1837.	15814	OS1921.	13644	OS2009.	13193	OS2080.	13249
OS1838.	13971	OS1921.	15061	OS2010.	13686	OS2081.	13664
OS1839.	15314	OS1922.	13104	OS2011.	13178	OS2082.	13232
OS1840.	15391	OS1923.	15454	OS2012.	13178	OS2083.	13342
OS1842.	15705	OS1924.	16373	OS2013.	13193	OS2086.	11964
OS1843.	17018	OS1926.	16444	OS2014.	13200	OS2091.	13340
OS1844.	16200	OS1927.	16067	OS2015.	13051	CHRYSLER	
OS1845.	17137	OS1928.	17138	OS2016.	13200	3000598	12909
OS1846.	16198	OS1929.	17090	OS2017.	13903	3236666	12909
OS1847.	16199	OS1930.	16247	OS2018.	13281	3238765	12909
OS1848.	16197	OS1931.	16283	OS2019.	13928	3240083	12028
OS1849.	17036	OS1932.	16363	OS2020.	13809	4004675	12919
OS1851.	16433	OS1933.	16243	OS2021.	13902	4275685	12919
OS1852.	16205	OS1934.	17085	OS2023.	13512	4301175	12919
OS1853.	15314	OS1936.	16259	OS2024.	13680	4301246	12919
OS1854.	15514	OS1937.	16442	OS2025.	13041	4301275	12919
OS1855.	13806	OS1938.	16452	OS2026.	15710	4301346	12919
OS1856.	15514	OS1939.	15330	OS2027.	13131		

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CHRYSLER (cont'd)		CHRYSLER (cont'd)		CHRYSLER (cont'd)		CHRYSLER (cont'd)	
4301375	12919	56027916	13100	56028233AA	13132	56044580AA	13937
4605077	15707	56027917	15705	56028235AA	13134	56044581AA	15825
4605270	13317	56028200	13275	56028584AA	13610	56044582AA	13717
4605654	13275	56028301	15704	56028586AA	13937	56044583AA	13937
4606037	15704	56028603	15704	56028587AA	15825	560445841AA	15825
4606061	13153	56041004	13280	56028765AA	13610	89 33 000 598	12909
4606063	13413	56041005	13138	56028766AA	13687	89 33 002 455	12909
4606067	13317	56041006	13138	56028992AA	13762	DS56030100AA	13687
4606069	13317	56041055	13138	56028994AA	15504	DS5603110AA	13664
4606071	13413	56041056	13138	56028994AB	13869	J3240083	12028
4606075	13317	56041107	13280	56028995AA	15505	M05269711	13407
4606090	13317	56041108	13138	56028995AB	15123	MD011225	12053
4606091	15704	56041111	13399	56028996AA	15506	MD073036	12053
4606140	15704	56041212	13100	56028997AA	13687	MD073175	12053
4606327	13871	56041213	15705	56028998AA	15508	MD073461	12053
4606421	15045	56041219	13138	56028998AB	13871	MD073546	12053
4606422	13413	86028301	15704	56028999AA	13687	MD076706	12053
4606523	13413	8933000598	12909	56028999AB	13775	MD077621	12053
4606525	15046	8933002455	12909	56029049AA	15510	MD088616	12053
4606620	13399	8953002106	12008	56029050AA	15511	MD089922	12053
4606624	13122	4606133AB	13272	56029052AA	15512	MD107793	12053
4606626	15047	4606133AC	13272	56029084AA	15124	MD108934	12053
4606950	13280	4606133AD	13138	56029085AA	15122	MD110487	12053
4671030	13155	4606133AE	13272	56029112AA	13714	MD110492	12053
4671052	13480	4606135AB	13413	56029112AD	13399	MD117240	12053
4671066	15704	4606135AD	15297	56029333AA	13937	MD119210	12053
4686120	13149	4606555AA	15705	56030100AA	13687	MD119609	12053
4686154	15705	4606555AB	15439	56030111AA	13687	MD121306	12053
4686222	13100	4606555AC	15705	56031110AA	13664	MD127062	12053
4686621	13149	4606555AD	15299	56041212AB	13280	MD128262	12053
4686622	13149	4606950AB	13280	56041212AC	13130	MD131229	15075
4686723	13436	4686154AB	15705	56041212AE	13100	MD131446	12053
4686932	13122	4686932AB	13122	56041212AF	13280	MD131447	12053
4686933	15704	4686933AB	13123	56041213AB	13272	MD135140	12053
4686934	13436	4686934AB	13436	56041213AC	13132	MD136308	13598
4713639	12009	4686935AB	13674	56041213AE	13272	MD136309	12053
4713769	12009	4686938AA	13709	56041213AF	13122	MD136310	13598
4727225	13149	4686938AB	13709	56041213AG	13138	MD136491	13218
4761391	12009	4727225AB	13149	56041214AA	13100	MD136493	13598
4778167	12008	4727436AA	13710	56041344AB	13138	MD137274	12053
5227268	13190	4727436AB	15300	56041344AC	13139	MD140388	12053
5227368	13190	4727446AD	15497	56041344AD	13138	MD143490	13494
5227628	13190	4727936AC	15498	56041345AB	13139	MD147878	15538
5233088	13275	4727936AD	15498	56041345AC	13139	MD148687	12053
5234014	15706	5014780AA	12014	56041345AD	13139	MD148738	13928
5234015	15707	5033039AA	13316	56041345AE	13717	MD149813	12053
5234921	12919	5033081AA	13280	56041676AA	13122	MD149888	12041
5269564	13151	5033200AA	15301	56041698AA	13664	MD150609	12023
5269642	13100	5033356AA	13877	56041699AA	15306	MD154365	13928
5269707	13155	5033500AA	13672	56041702AA	13610	MD164422	13807
5269711	13407	5033758AA	13123	56041706AA	15308	MD164423	13808
5269714	13151	5099817AA	16123	56041731AA	13937	MD165083	13812
5269743	13315	5099818AA	13875	56041732AA	15825	MD174677	13928
5269744	13399	5099820AA	13875	56041845AA	13687	MD175110	13473
5269866	13320	5099821AA	16276	56041845AB	13687	MD176183	13928
5269973	13151	5135667AA	17019	56041846AA	13714	MD181398	13480
33004243	12014	5139020AA	13687	56041847AA	13718	MD182691	13457
34713639	12009	5139021AA	13687	56041848AA	13687	MD182692	13468
35427118	17019	5149063AA	17115	56041941AA	15825	MD182793	13218
53000886	12014	5269868AB	13695	56041942AA	13937	MD183145	13460
53002106	12008	5293036AB	13315	56041943AA	13687	MD183399	13832
53004245	12009	5293037AA	13280	56041944AA	13664	MD184939	13417
53007638	13275	5293037AD	13315	56041950AA	13670	MD185334	13460
56005925	15704	5293038AB	15218	56041951AA	13670	MD185335	13428
56021212	13100	56028049AA	15006	56041952AA	13671	MD186392	13830
56026827	15704	56028050AA	15511	56041953AA	13672	MD186990	13812
56027902	15704	56028232AA	13130	56044215AA	15465	MD186991	13801

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DELPHI (cont'd)		DELPHI (cont'd)		DELPHI (cont'd)		DELPHI (cont'd)	
ES10690	13252	ES10899	13559	ES10928	17216	ES10952	13836
ES10718	13850	ES10899	15668	ES10929	15217	ES10952	13903
ES10730	13404	ES10903	13866	ES10930	13733	ES10952	15242
ES10730	13797	ES10908	15498	ES10930	15926	ES10953	13444
ES10735	13879	ES10909	13847	ES10931	13540	ES10954	12106
ES10740	15327	ES10909	15545	ES10932	13493	ES10955	13471
ES10743	15076	ES10910	15645	ES10932	13512	ES10955	13896
ES10744	15207	ES10910	15802	ES10932	15394	ES10957	13034
ES10751	13025	ES10914	15680	ES10933	13996	ES10957	13119
ES10751	13246	ES10914	15681	ES10933	15101	ES10958	13968
ES10751	13965	ES10915	15663	ES10933	15117	ES10958	15340
ES10751	15070	ES10915	15804	ES10933	15118	ES10958	15343
ES10751	15393	ES10916	15123	ES10933	15624	ES10958	15467
ES10751	15401	ES10917	13869	ES10933	15974	ES10959	13350
ES10751	15906	ES10918	13884	ES10933	15988	ES10959	13504
ES10751	15910	ES10920	17095	ES10933	15996	ES10959	13531
ES10820	13245	ES10920	17097	ES10934	13735	ES10959	15342
ES10820	13517	ES10920	17160	ES10934	13997	ES10960	13946
ES10822	12051	ES10920	17177	ES10934	15093	ES10962	15062
ES10822	13392	ES10920	17201	ES10934	15095	ES10962	15235
ES10822	15237	ES10920	17221	ES10934	15486	ES10962	15261
ES10822	15534	ES10920	17254	ES10934	15489	ES10963	13073
ES10826	13661	ES10920	17275	ES10934	15490	ES10963	15701
ES10826	15098	ES10920	17278	ES10934	15571	ES10964	12050
ES10826	15255	ES10921	17014	ES10934	15572	ES10966	12013
ES10827	13470	ES10921	17053	ES10934	15622	ES10966	12014
ES10835	15299	ES10921	17105	ES10934	15623	ES20000	13474
ES10835	15439	ES10921	17109	ES10934	15934	ES20001	13474
ES10840	13709	ES10921	17113	ES10934	15960	ES20002	13444
ES10841	15718	ES10921	17125	ES10934	15962	ES20003	13111
ES10844	13710	ES10921	17140	ES10934	15966	ES20004	15503
ES10844	15300	ES10921	17149	ES10934	15984	ES20005	15290
ES10849	12053	ES10921	17161	ES10934	15998	ES20005	15559
ES10852	13394	ES10921	17174	ES10935	13737	ES20006	15039
ES10853	13367	ES10921	17189	ES10935	15013	ES20006	15635
ES10856	15314	ES10921	17208	ES10935	15108	ES20007	13779
ES10856	15431	ES10921	17227	ES10935	15964	ES20007	15133
ES10856	15536	ES10921	17244	ES10935	15968	ES20007	15152
ES10856	15647	ES10921	17255	ES10936	15473	ES20007	15564
ES10856	15648	ES10922	17085	ES10936	15501	ES20008	15282
ES10856	15848	ES10922	17090	ES10937	13680	ES20009	15000
ES10857	15109	ES10922	17157	ES10937	13706	ES20009	15283
ES10857	15669	ES10922	17193	ES10938	13557	ES20010	13423
ES10880	15369	ES10922	17235	ES10938	15015	ES20011	16205
ES10880	15666	ES10922	17243	ES10938	17018	ES20011	16378
ES10880	16596	ES10923	15176	ES10939	15627	ES20011	16379
ES10882	15306	ES10923	15493	ES10939	15846	ES20012	15494
ES10882	15505	ES10923	15667	ES10940	15400	ES20012	16532
ES10882	15511	ES10923	17018	ES10940	15482	ES20012	16717
ES10882	15512	ES10923	17038	ES10941	15052	ES20012	16726
ES10883	13446	ES10923	17179	ES10941	15574	ES20013	15284
ES10883	13463	ES10923	17204	ES10941	15946	ES20014	13117
ES10883	13466	ES10923	17205	ES10941	15950	ES20014	13127
ES10883	15651	ES10923	17264	ES10941	15954	ES20014	13133
ES10883	15654	ES10924	17044	ES10942	15011	ES20014	15001
ES10883	15655	ES10924	17070	ES10942	15019	ES20014	15716
ES10888	15710	ES10924	17136	ES10942	15928	ES20014	15717
ES10890	15405	ES10924	17137	ES10943	15930	ES20014	15718
ES10890	15476	ES10924	17188	ES10944	13613	ES20015	13317
ES10895	15175	ES10925	17034	ES10945	13998	ES20015	15704
ES10895	15184	ES10925	17036	ES10946	12112	ES20016	13153
ES10896	15630	ES10925	17134	ES10947	13471	ES20016	15704
ES10897	13746	ES10926	16065	ES10948	13471	ES20017	13275
ES10897	13748	ES10926	16066	ES10949	12061	ES20017	13317
ES10897	13749	ES10927	15646	ES10950	13050	ES20018	15702
ES10898	13747	ES10928	17019	ES10951	12113	ES20019	12053
ES10899	13477	ES10928	17215	ES10952	12102	ES20019	13218



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DELPHI (cont'd)		DELPHI (cont'd)		DELPHI (cont'd)		DELPHI (cont'd)	
ES20019	13598	ES20049	13436	ES20071	13136	ES20087	13579
ES20020	13060	ES20050	13407	ES20071	13141	ES20087	13863
ES20020	13539	ES20050	13456	ES20071	13142	ES20087	13886
ES20020	15710	ES20050	13480	ES20071	13988	ES20087	15322
ES20022	13026	ES20051	13444	ES20072	13051	ES20088	13686
ES20022	15703	ES20052	13007	ES20072	13095	ES20089	13672
ES20023	13026	ES20052	13184	ES20072	13104	ES20089	13687
ES20023	15703	ES20052	13938	ES20072	13136	ES20089	13718
ES20024	13155	ES20052	15480	ES20072	13340	ES20090	13687
ES20024	15707	ES20052	15481	ES20072	13566	ES20091	13937
ES20025	13115	ES20053	13007	ES20072	15417	ES20092	13687
ES20026	13115	ES20053	13249	ES20072	15418	ES20093	13664
ES20027	15591	ES20053	13977	ES20073	13035	ES20093	13670
ES20028	13027	ES20053	15710	ES20074	15083	ES20094	13178
ES20029	13457	ES20054	13134	ES20075	13029	ES20094	13780
ES20030	13425	ES20054	13139	ES20076	13408	ES20094	13787
ES20030	15581	ES20055	13257	ES20076	13417	ES20094	15280
ES20031	15287	ES20055	15961	ES20076	13804	ES20095	13193
ES20031	15293	ES20056	13226	ES20076	13805	ES20096	13455
ES20031	15634	ES20056	13264	ES20076	13830	ES20096	15554
ES20032	13405	ES20056	15959	ES20076	15360	ES20097	13701
ES20032	15711	ES20056	15961	ES20076	15592	ES20098	13111
ES20033	13200	ES20057	13271	ES20076	15611	ES20098	13483
ES20033	15711	ES20057	13659	ES20077	13460	ES20099	13348
ES20034	13421	ES20057	15757	ES20077	13494	ES20099	13374
ES20035	13401	ES20058	13074	ES20077	13832	ES20099	15436
ES20035	13447	ES20058	13363	ES20077	15347	ES20099	15965
ES20036	13447	ES20059	13354	ES20078	13428	ES20100	15265
ES20036	15711	ES20059	13646	ES20078	13805	ES20100	15638
ES20037	13289	ES20059	13906	ES20078	13812	ES20101	13469
ES20037	15328	ES20059	13907	ES20079	13480	ES20102	13280
ES20037	15491	ES20059	15071	ES20079	15359	ES20102	15047
ES20037	15708	ES20059	15313	ES20079	15609	ES20103	13353
ES20038	15708	ES20060	13056	ES20080	13410	ES20103	13556
ES20039	13117	ES20060	13302	ES20080	13801	ES20103	13908
ES20039	13131	ES20060	13615	ES20080	15514	ES20103	15215
ES20039	13743	ES20060	13983	ES20080	15515	ES20103	15273
ES20039	15312	ES20060	15617	ES20081	13801	ES20103	15275
ES20039	15716	ES20061	13132	ES20081	13933	ES20103	15276
ES20039	15717	ES20062	13130	ES20081	15358	ES20103	15289
ES20039	15718	ES20062	13695	ES20081	15460	ES20104	15716
ES20039	15719	ES20063	13258	ES20081	15593	ES20104	15717
ES20040	13756	ES20063	13487	ES20081	15597	ES20105	13937
ES20040	13854	ES20063	15086	ES20081	15602	ES20106	13687
ES20040	15675	ES20063	15403	ES20082	13412	ES20106	15308
ES20041	13151	ES20063	15406	ES20082	13822	ES20107	13682
ES20042	13413	ES20063	15479	ES20082	15601	ES20108	16063
ES20043	13399	ES20064	13131	ES20083	13412	ES20109	15041
ES20043	15045	ES20064	15718	ES20083	15583	ES20109	15294
ES20043	15704	ES20064	15719	ES20084	13412	ES20110	13872
ES20044	13122	ES20065	13581	ES20084	13815	ES20110	15549
ES20044	13320	ES20065	13838	ES20084	15352	ES20111	13041
ES20044	15705	ES20065	13859	ES20084	15354	ES20112	13073
ES20045	13138	ES20066	13857	ES20084	15576	ES20112	13500
ES20045	13139	ES20067	13596	ES20085	13796	ES20113	15543
ES20045	13149	ES20067	15257	ES20086	13353	ES20113	16746
ES20045	13272	ES20067	15315	ES20086	13489	ES20114	13256
ES20045	13280	ES20068	13595	ES20086	13558	ES20114	13377
ES20045	13316	ES20068	13772	ES20086	13644	ES20114	13637
ES20045	15218	ES20068	15042	ES20086	13917	ES20114	13853
ES20045	15297	ES20068	15043	ES20086	13919	ES20114	15079
ES20045	15465	ES20069	13574	ES20086	13992	ES20114	15398
ES20046	13280	ES20069	13960	ES20086	15061	ES20115	16175
ES20046	13413	ES20069	15330	ES20086	15087	ES20115	16200
ES20047	13100	ES20070	13198	ES20086	15246	ES20115	16447
ES20047	13123	ES20070	13342	ES20086	15618	ES20115	16624
ES20048	13149	ES20071	13095	ES20087	13306	ES20116	13361

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Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.
DELPHI (cont'd)		DELPHI (cont'd)		DELPHI (cont'd)		DELPHI (cont'd)	
ES20117	15285	ES20142	13656	ES20162	16446	ES20175	16473
ES20118	13354	ES20142	13685	ES20162	16541	ES20175	16751
ES20118	13355	ES20142	15712	ES20162	16623	ES20176	13704
ES20118	13763	ES20143	13591	ES20162	16682	ES20176	15409
ES20118	15089	ES20143	15989	ES20163	16173	ES20176	15410
ES20118	15103	ES20144	13287	ES20163	16198	ES20177	16247
ES20118	15104	ES20144	13306	ES20163	16488	ES20177	16259
ES20118	15106	ES20144	15314	ES20164	16067	ES20177	16302
ES20118	15423	ES20145	13287	ES20164	16069	ES20177	16442
ES20118	15619	ES20145	13289	ES20164	16091	ES20177	16444
ES20118	15990	ES20145	13511	ES20164	16283	ES20177	16584
ES20118	15992	ES20145	13870	ES20164	16371	ES20178	16213
ES20118	15994	ES20145	13971	ES20165	16291	ES20178	16334
ES20119	13104	ES20145	15262	ES20166	16121	ES20178	16412
ES20120	13885	ES20146	13801	ES20166	16243	ES20178	16416
ES20121	15278	ES20146	13807	ES20166	16249	ES20178	16422
ES20122	13887	ES20146	13816	ES20166	16261	ES20178	16452
ES20122	13967	ES20146	15349	ES20166	16307	ES20178	16498
ES20122	15266	ES20146	15350	ES20166	16582	ES20178	16554
ES20123	13868	ES20146	15351	ES20166	16663	ES20178	16557
ES20123	15267	ES20146	15353	ES20167	16292	ES20178	16591
ES20124	15040	ES20147	13725	ES20168	16109	ES20179	13970
ES20124	15295	ES20147	13727	ES20168	16213	ES20180	15620
ES20125	13052	ES20147	15867	ES20168	16255	ES20181	15122
ES20126	13030	ES20147	15957	ES20168	16257	ES20182	13279
ES20127	13096	ES20147	15985	ES20168	16305	ES20182	13281
ES20127	13851	ES20147	15987	ES20168	16373	ES20182	13300
ES20127	13959	ES20148	13473	ES20168	16704	ES20184	15769
ES20127	13974	ES20148	13795	ES20168	16727	ES20184	15959
ES20127	15080	ES20148	15069	ES20168	16729	ES20185	13515
ES20127	15085	ES20148	15357	ES20169	16296	ES20186	13366
ES20127	15228	ES20148	15578	ES20169	16363	ES20186	15429
ES20127	15391	ES20148	15615	ES20169	16400	ES20187	13273
ES20127	15413	ES20149	13315	ES20169	16418	ES20187	13278
ES20127	15471	ES20151	13117	ES20169	16515	ES20187	13653
ES20127	15477	ES20151	15664	ES20169	16517	ES20187	15769
ES20127	15912	ES20152	13551	ES20169	16550	ES20188	15814
ES20127	15944	ES20154	13822	ES20169	16559	ES20189	13893
ES20128	13371	ES20156	13586	ES20169	16589	ES20190	13374
ES20128	15407	ES20156	13588	ES20169	16609	ES20190	15377
ES20128	15476	ES20156	15244	ES20170	13391	ES20191	13073
ES20129	15973	ES20156	15269	ES20170	13565	ES20191	15059
ES20129	15975	ES20156	15270	ES20171	15643	ES20192	13142
ES20130	13007	ES20157	13544	ES20171	15644	ES20192	13164
ES20130	13249	ES20157	13632	ES20172	13882	ES20192	13520
ES20130	13978	ES20157	13647	ES20172	16511	ES20192	13916
ES20131	15769	ES20157	15309	ES20172	16513	ES20192	13920
ES20131	15871	ES20157	15310	ES20172	16596	ES20193	13618
ES20131	15873	ES20157	15487	ES20173	16183	ES20193	13986
ES20132	15857	ES20158	13356	ES20173	16328	ES20193	13989
ES20132	15881	ES20158	13461	ES20173	16753	ES20193	15210
ES20133	13468	ES20159	15319	ES20174	16179	ES20193	15414
ES20134	13694	ES20159	15562	ES20174	16268	ES20193	15415
ES20135	13852	ES20160	16287	ES20174	16318	ES20193	15416
ES20135	15561	ES20161	13897	ES20174	16348	ES20194	13441
ES20135	15703	ES20161	15518	ES20174	16353	ES20195	13412
ES20136	13176	ES20161	15521	ES20174	16359	ES20195	15458
ES20136	13639	ES20161	15522	ES20174	16475	ES20195	15462
ES20137	13315	ES20162	15037	ES20175	13875	ES20195	15599
ES20138	13450	ES20162	16100	ES20175	16123	ES20195	15603
ES20139	13450	ES20162	16101	ES20175	16125	ES20196	13717
ES20140	13055	ES20162	16146	ES20175	16167	ES20197	13610
ES20141	13075	ES20162	16174	ES20175	16272	ES20197	13762
ES20141	13322	ES20162	16197	ES20175	16274	ES20197	13775
ES20142	13071	ES20162	16199	ES20175	16276	ES20197	15508
ES20142	13322	ES20162	16433	ES20175	16330	ES20198	13687
ES20142	13534	ES20162	16435	ES20175	16438	ES20198	13871



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DELPHI (cont'd)		DELPHI (cont'd)		DENSO (cont'd)		DENSO (cont'd)	
ES20198	13877	ES20225	15589	234-1057	12031	234-3027	13005
ES20199	13937	ES20225	15600	234-1057	12203	234-3028	13957
ES20200	15825	ES20225	15615	234-1058	12002	234-3029	13011
ES20201	15825	ES20226	15105	234-2000	12211	234-3030	13012
ES20202	13338	ES20226	15570	234-2001	12028	234-3031	13003
ES20202	13902	ES20226	15986	234-2002	12022	234-3031	13924
ES20203	13571	ES20227	13358	234-2002	12023	234-3032	13032
ES20203	13844	ES20227	13773	234-2002	12053	234-3032	13508
ES20204	13745	ES20227	13774	234-2003	12108	234-3033	13034
ES20204	13754	ES20227	15653	234-2003	13898	234-3033	13119
ES20205	13256	ES20227	15657	234-2004	12019	234-3034	13049
ES20205	13377	ES20227	15658	234-2004	12043	234-3034	13059
ES20206	13670	ES20228	15301	234-2005	12106	234-3042	15709
ES20207	13674			234-2006	12035	234-3048	13101
ES20208	13610	DENSO		234-2007	12028	234-3048	13957
ES20208	15314	234-1000	11027	234-2008	12109	234-3051	13909
ES20208	15506	234-1000	11047	234-2008	12200	234-3052	13910
ES20209	13254	234-1001	12013	234-2009	13471	234-3060	13047
ES20209	13534	234-1001	12014	234-2010	12108	234-3060	13058
ES20209	13979	234-1002	12919	234-2011	13471	234-3070	13299
ES20210	13671	234-1003	12909	234-2012	12111	234-3070	13381
ES20210	13714	234-1004	12909	234-2013	13444	234-3073	13054
ES20211	13751	234-1005	12053	234-2014	13928	234-3074	13010
ES20211	15245	234-1006	12050	234-2015	13471	234-3074	15701
ES20212	15035	234-1007	12053	234-2038	15633	234-3075	13416
ES20212	15056	234-1008	12050	234-2050	12210	234-3075	13482
ES20213	13720	234-1008	12051	234-2051	12201	234-3076	13953
ES20213	15107	234-1009	11027	234-2051	12205	234-3077	13942
ES20213	15569	234-1009	12050	234-2052	12201	234-3078	13370
ES20213	15616	234-1009	12055	234-2055	12202	234-3079	13245
ES20214	13753	234-1009	15396	234-2057	12202	234-3080	13376
ES20214	15033	234-1010	12038	234-2058	12105	234-3081	13925
ES20214	15034	234-1011	11032	234-2060	13191	234-3081	13926
ES20214	15050	234-1011	11051	234-2062	12100	234-3082	13915
ES20214	15656	234-1011	12046	234-2064	12053	234-3083	13250
ES20215	13532	234-1012	12054	234-2065	15075	234-3083	13255
ES20215	13676	234-1013	11051	234-2066	13928	234-3084	13284
ES20215	13677	234-1013	12046	234-2067	12041	234-3085	13362
ES20215	15948	234-1014	12203	234-2068	12106	234-3085	13964
ES20215	15952	234-1015	11032	234-2068	13896	234-3086	13364
ES20215	15956	234-1016	12039	234-3000	13001	234-3086	13549
ES20216	15437	234-1017	12050	234-3000	13918	234-3087	13091
ES20216	15963	234-1018	12053	234-3000	15735	234-3087	13224
ES20217	15967	234-1018	13963	234-3001	13913	234-3087	13327
ES20218	13675	234-1019	12054	234-3002	13942	234-3087	13329
ES20218	15949	234-1020	12061	234-3003	13190	234-3087	13658
ES20219	13538	234-1020	15271	234-3004	15701	234-3087	13666
ES20219	15025	234-1021	12053	234-3005	12008	234-3087	15362
ES20219	15028	234-1022	13053	234-3005	13077	234-3088	13250
ES20219	15031	234-1023	13022	234-3007	13953	234-3088	13445
ES20219	15032	234-1024	12113	234-3008	13572	234-3089	13262
ES20219	15942	234-1025	12006	234-3008	13583	234-3089	13311
ES20220	15523	234-1029	13043	234-3009	13589	234-3089	13420
ES20220	15525	234-1030	13050	234-3010	13547	234-3089	13652
ES20221	15659	234-1033	12053	234-3011	15700	234-3089	13663
ES20221	15661	234-1040	15271	234-3012	13576	234-3089	15820
ES20222	13878	234-1051	12051	234-3013	13211	234-3089	15881
ES20223	13355	234-1052	12053	234-3013	13232	234-3090	15727
ES20223	15030	234-1053	12102	234-3014	15701	234-3091	13702
ES20224	13353	234-1053	12114	234-3016	13008	234-3092	13245
ES20224	13622	234-1054	12102	234-3018	13936	234-3093	13418
ES20224	13634	234-1054	13836	234-3019	13019	234-3094	13077
ES20224	13921	234-1054	13903	234-3019	13313	234-3095	13948
ES20224	15239	234-1054	15242	234-3019	13957	234-3096	13420
ES20224	15243	234-1055	12112	234-3020	13048	234-3096	15819
ES20224	15621	234-1055	13903	234-3023	13165	234-3097	13228
ES20224	15972	234-1056	12051	234-3023	13181	234-3098	13242

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Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.
DENSO (cont'd)		DENSO (cont'd)		DENSO (cont'd)		DENSO (cont'd)	
234-3098	13505	234-4005	13123	234-4048	15244	234-4081	13468
234-3098	13562	234-4006	13030	234-4048	15269	234-4082	13436
234-3098	15821	234-4006	15702	234-4048	15270	234-4083	13407
234-3098	15983	234-4007	13218	234-4048	15618	234-4083	13480
234-3099	13703	234-4007	13598	234-4049	13500	234-4084	15634
234-3100	13703	234-4008	13316	234-4050	15728	234-4086	13366
234-3101	13396	234-4008	15465	234-4051	13405	234-4087	13444
234-3101	13957	234-4010	13674	234-4051	15711	234-4088	13038
234-3102	13524	234-4011	13539	234-4052	13200	234-4088	13045
234-3103	13148	234-4012	13026	234-4053	13421	234-4089	13111
234-3104	13146	234-4012	15703	234-4055	13401	234-4090	15503
234-3104	13930	234-4013	13155	234-4055	13447	234-4091	13218
234-3105	13152	234-4013	15707	234-4055	15711	234-4092	13258
234-3105	13160	234-4014	15706	234-4056	15711	234-4092	13487
234-3106	15363	234-4015	13643	234-4057	13326	234-4092	15406
234-3107	13841	234-4015	13732	234-4057	13427	234-4092	15479
234-3107	15540	234-4016	13115	234-4058	13431	234-4093	13184
234-3108	13630	234-4017	13830	234-4058	15058	234-4093	13938
234-3109	15466	234-4018	13474	234-4059	13519	234-4093	13978
234-3109	15955	234-4019	13027	234-4060	13073	234-4094	13075
234-3110	13504	234-4020	13457	234-4061	13056	234-4094	13322
234-3111	13350	234-4021	13149	234-4061	13302	234-4094	13685
234-3111	13531	234-4022	13710	234-4061	13615	234-4095	13060
234-3112	15971	234-4023	13037	234-4061	13983	234-4095	13539
234-3113	13968	234-4024	13029	234-4063	15561	234-4095	15710
234-3113	15340	234-4025	13444	234-4063	15703	234-4096	13007
234-3113	15467	234-4026	13425	234-4064	15487	234-4096	13184
234-3116	12009	234-4026	15190	234-4064	15761	234-4096	13249
234-3120	13791	234-4026	15220	234-4065	13249	234-4096	13938
234-3121	13252	234-4026	15581	234-4065	13938	234-4097	13093
234-3122	13385	234-4027	13428	234-4066	13361	234-4098	13363
234-3123	13783	234-4027	13460	234-4067	13287	234-4099	13007
234-3123	13848	234-4028	13151	234-4067	13289	234-4099	13249
234-3126	13387	234-4029	13672	234-4067	15328	234-4099	13977
234-3126	13972	234-4029	13687	234-4067	15708	234-4099	15710
234-3129	13021	234-4030	13664	234-4068	15314	234-4100	15478
234-3129	13791	234-4031	15287	234-4068	15708	234-4101	15635
234-3130	13946	234-4032	13473	234-4069	13556	234-4102	13701
234-3135	13308	234-4033	13041	234-4069	15273	234-4103	13686
234-3150	13839	234-4034	13571	234-4069	15275	234-4104	13682
234-3151	13841	234-4035	15319	234-4069	15687	234-4105	15040
234-3201	15448	234-4036	13879	234-4070	15717	234-4105	15295
234-3301	13091	234-4037	13756	234-4070	15718	234-4108	13872
234-3302	13039	234-4037	13850	234-4070	15719	234-4108	15549
234-3302	13276	234-4037	15675	234-4071	15716	234-4112	15285
234-3302	13673	234-4038	13854	234-4071	15717	234-4113	13423
234-3303	13276	234-4039	13574	234-4071	15718	234-4115	13122
234-3304	13260	234-4039	13960	234-4072	13198	234-4115	13123
234-3305	15343	234-4039	15330	234-4072	13200	234-4115	13320
234-3306	15355	234-4040	15326	234-4074	15228	234-4117	15227
234-3307	15207	234-4040	15429	234-4074	15710	234-4117	15314
234-3308	13251	234-4041	13289	234-4075	13413	234-4117	15848
234-3309	13388	234-4041	13967	234-4076	13100	234-4119	13847
234-3310	15209	234-4041	15327	234-4076	13399	234-4119	15545
234-3312	13617	234-4042	13745	234-4076	15045	234-4121	13894
234-3312	13635	234-4042	13754	234-4076	15704	234-4121	15536
234-3312	13657	234-4042	13843	234-4077	13122	234-4122	13532
234-4000	15732	234-4043	15265	234-4077	15705	234-4122	13677
234-4001	13127	234-4044	15263	234-4078	13138	234-4123	15710
234-4001	15716	234-4044	15325	234-4078	13272	234-4124	15391
234-4001	15717	234-4045	15716	234-4078	13280	234-4125	15476
234-4002	13317	234-4045	15717	234-4078	15218	234-4126	15278
234-4002	15704	234-4045	15718	234-4079	13280	234-4127	13117
234-4003	13153	234-4046	15716	234-4079	13413	234-4127	15717
234-4003	15704	234-4048	13586	234-4079	15297	234-4128	13383
234-4004	13275	234-4048	13588	234-4080	15041	234-4129	15634
234-4005	13100	234-4048	13900	234-4080	15294	234-4130	13890



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DENSO (cont'd)		DENSO (cont'd)		DENSO (cont'd)		DENSO (cont'd)	
234-4130	13891	234-4168	15569	234-4204	15535	234-4284	13852
234-4131	13218	234-4169	13441	234-4205	13051	234-4284	15561
234-4132	15814	234-4170	13642	234-4206	15739	234-4285	15129
234-4133	15083	234-4170	13860	234-4209	15733	234-4286	13694
234-4134	13893	234-4170	15003	234-4210	15730	234-4286	15468
234-4135	13529	234-4171	13433	234-4211	13470	234-4287	13455
234-4135	13801	234-4171	15182	234-4212	15729	234-4288	15149
234-4137	13353	234-4172	13638	234-4214	13520	234-4289	15449
234-4137	13489	234-4172	15005	234-4214	13920	234-4289	15696
234-4137	13992	234-4172	15202	234-4215	13338	234-4292	13256
234-4138	13441	234-4173	15090	234-4215	13902	234-4292	15912
234-4139	13634	234-4174	13582	234-4216	13709	234-4293	15148
234-4139	13921	234-4174	13782	234-4217	13670	234-4294	15113
234-4139	15972	234-4174	13864	234-4220	13534	234-4295	15529
234-4140	13859	234-4175	13798	234-4221	15637	234-4297	13882
234-4141	13596	234-4175	13862	234-4222	15039	234-4301	15525
234-4141	15315	234-4176	13597	234-4222	15635	234-4301	15666
234-4142	13595	234-4176	13784	234-4225	13766	234-4301	16596
234-4142	15257	234-4177	13427	234-4226	13035	234-4302	13675
234-4143	13970	234-4177	13790	234-4228	13670	234-4302	15369
234-4144	13551	234-4178	15092	234-4229	13718	234-4302	15523
234-4145	13857	234-4179	15094	234-4230	13877	234-4307	15521
234-4146	13886	234-4180	13640	234-4232	15301	234-4308	15524
234-4147	13962	234-4180	13952	234-4233	15290	234-4308	15665
234-4148	13892	234-4180	15088	234-4234	15059	234-4309	15518
234-4148	15323	234-4181	15235	234-4235	15044	234-4310	15526
234-4149	13720	234-4182	13373	234-4236	15139	234-4311	15527
234-4149	15107	234-4182	13395	234-4241	15224	234-4312	15365
234-4149	15584	234-4182	13564	234-4260	15089	234-4312	15522
234-4149	15616	234-4182	13654	234-4260	15100	234-4313	13897
234-4149	15756	234-4182	15250	234-4260	15104	234-4314	15066
234-4150	13392	234-4183	13661	234-4260	15111	234-4315	15065
234-4150	15237	234-4183	15255	234-4260	15112	234-4316	15187
234-4150	15534	234-4183	15261	234-4260	15195	234-4317	15188
234-4151	13198	234-4184	13661	234-4260	15423	234-4318	15191
234-4152	13279	234-4184	13723	234-4260	15641	234-4319	15795
234-4152	13281	234-4184	13817	234-4260	15649	234-4322	13261
234-4152	13300	234-4185	13662	234-4260	15670	234-4323	15873
234-4153	13095	234-4185	13721	234-4260	15672	234-4323	15973
234-4153	13104	234-4185	13723	234-4260	15674	234-4323	15975
234-4153	13136	234-4186	13806	234-4260	15688	234-4324	13969
234-4153	13141	234-4189	13618	234-4260	15689	234-4325	13659
234-4153	13988	234-4189	13986	234-4260	15990	234-4326	15437
234-4154	13104	234-4189	13989	234-4260	15992	234-4327	15445
234-4154	13340	234-4189	15210	234-4260	15994	234-4328	15436
234-4155	13142	234-4189	15211	234-4261	13354	234-4329	15371
234-4156	13422	234-4189	15414	234-4261	13355	234-4329	15772
234-4157	13422	234-4189	15415	234-4261	13763	234-4329	15914
234-4159	13164	234-4189	15416	234-4261	15103	234-4329	15916
234-4159	13904	234-4190	15431	234-4261	15106	234-4330	13866
234-4159	15208	234-4190	15647	234-4261	15958	234-4331	15131
234-4160	13342	234-4190	15648	234-4265	13498	234-4332	15000
234-4161	13051	234-4191	13463	234-4266	13509	234-4332	15154
234-4161	13095	234-4191	15651	234-4267	15037	234-4333	13857
234-4161	13340	234-4191	15654	234-4268	15036	234-4334	15164
234-4161	15417	234-4192	13358	234-4269	15183	234-4335	15144
234-4161	15418	234-4192	15653	234-4270	15225	234-4336	15151
234-4162	13095	234-4193	13446	234-4270	15943	234-4336	15241
234-4162	13104	234-4193	13466	234-4273	15937	234-4337	15137
234-4163	13566	234-4193	15655	234-4275	15582	234-4338	15141
234-4164	13459	234-4194	15659	234-4276	15613	234-4338	15145
234-4166	13773	234-4194	15661	234-4277	15591	234-4339	15128
234-4166	15657	234-4199	13774	234-4280	13822	234-4339	15136
234-4166	15658	234-4200	15736	234-4281	15588	234-4340	15786
234-4167	13911	234-4201	15738	234-4281	15590	234-4341	15165
234-4167	15272	234-4202	15073	234-4282	15021	234-4342	15152
234-4167	15568	234-4204	13916	234-4282	15924	234-4342	15161

Competitor Cross Reference

Oxygen Sensors

Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.
DENSO (cont'd)		DENSO (cont'd)		DENSO (cont'd)		DENSO (cont'd)	
234-4343	13193	234-4393	15252	234-4470	15321	234-4608	15312
234-4344	15543	234-4393	15426	234-4470	15682	234-4609	13117
234-4345	15285	234-4394	15386	234-4471	15339	234-4609	13133
234-4346	13178	234-4396	13769	234-4471	15366	234-4609	15717
234-4348	15132	234-4397	15428	234-4471	15442	234-4609	15718
234-4348	15254	234-4398	15430	234-4472	15335	234-4609	15723
234-4349	13772	234-4399	15427	234-4473	15680	234-4609	15724
234-4349	15042	234-4401	15664	234-4473	15681	234-4609	15752
234-4349	15043	234-4402	15664	234-4488	15379	234-4610	13127
234-4350	13961	234-4403	13117	234-4501	15196	234-4610	15001
234-4350	15009	234-4404	13461	234-4502	15105	234-4610	15716
234-4351	13114	234-4405	15543	234-4503	15620	234-4610	15717
234-4351	13715	234-4406	15543	234-4504	15986	234-4611	13131
234-4351	13744	234-4408	13944	234-4506	15127	234-4611	15718
234-4351	13777	234-4409	13955	234-4507	15711	234-4611	15719
234-4351	13781	234-4410	15512	234-4508	13525	234-4612	13581
234-4352	15476	234-4411	15497	234-4509	13679	234-4612	13838
234-4353	15084	234-4412	15498	234-4509	15570	234-4613	13707
234-4354	15948	234-4413	15158	234-4509	15758	234-4613	15004
234-4354	15952	234-4414	15157	234-4510	15290	234-4614	13315
234-4354	15956	234-4420	15240	234-4510	15640	234-4614	13801
234-4355	13256	234-4421	15492	234-4511	13448	234-4614	15046
234-4355	13853	234-4422	15232	234-4512	15620	234-4615	13450
234-4355	15079	234-4422	15491	234-4512	15674	234-4616	13450
234-4356	13840	234-4423	15799	234-4514	13904	234-4616	13483
234-4356	13851	234-4424	15051	234-4515	15762	234-4617	13111
234-4356	15080	234-4425	15233	234-4516	15620	234-4618	13055
234-4356	15471	234-4426	15236	234-4517	15061	234-4619	13912
234-4356	15944	234-4427	13511	234-4518	15126	234-4619	13914
234-4357	15296	234-4428	13458	234-4519	15759	234-4620	13075
234-4358	15027	234-4429	15346	234-4520	13081	234-4621	13071
234-4359	15318	234-4431	13746	234-4520	15532	234-4621	13254
234-4360	13676	234-4431	13748	234-4521	15120	234-4621	13534
234-4362	15606	234-4431	13749	234-4521	15125	234-4621	13656
234-4362	15610	234-4432	13747	234-4524	15274	234-4621	13979
234-4363	15410	234-4433	15334	234-4587	13672	234-4621	15712
234-4364	15086	234-4434	13751	234-4587	15504	234-4622	13355
234-4365	15002	234-4434	15034	234-4587	15510	234-4622	15617
234-4366	15064	234-4434	15562	234-4588	15505	234-4622	15619
234-4367	13256	234-4435	15050	234-4588	15511	234-4622	15671
234-4368	15085	234-4435	15656	234-4590	15300	234-4623	13353
234-4369	13959	234-4436	13753	234-4592	15705	234-4623	13622
234-4369	15413	234-4436	15033	234-4593	13869	234-4623	13908
234-4370	15717	234-4437	15367	234-4596	15299	234-4623	15215
234-4370	15753	234-4439	15320	234-4596	15439	234-4623	15239
234-4371	15645	234-4445	15170	234-4597	13871	234-4623	15243
234-4371	15802	234-4445	15172	234-4597	15047	234-4623	15289
234-4372	15755	234-4446	15025	234-4601	13176	234-4623	15621
234-4373	15717	234-4446	15031	234-4601	13639	234-4624	13051
234-4374	15717	234-4446	15932	234-4601	15403	234-4624	13354
234-4375	15663	234-4447	15030	234-4602	13134	234-4624	13355
234-4375	15804	234-4450	13528	234-4602	13139	234-4624	13768
234-4376	13621	234-4450	13767	234-4603	13489	234-4624	15617
234-4378	13785	234-4450	15174	234-4603	13558	234-4624	15642
234-4378	15608	234-4450	15800	234-4603	13900	234-4625	13056
234-4380	15370	234-4451	15823	234-4603	13917	234-4625	13302
234-4380	15387	234-4452	15185	234-4603	13919	234-4626	13354
234-4381	15384	234-4452	15695	234-4603	15087	234-4626	13646
234-4383	15194	234-4452	15812	234-4603	15246	234-4626	13906
234-4383	15605	234-4452	15816	234-4604	13619	234-4626	13907
234-4383	15607	234-4453	15173	234-4605	13578	234-4626	15071
234-4387	15798	234-4453	15181	234-4606	13306	234-4626	15247
234-4390	13770	234-4453	15811	234-4606	13579	234-4626	15313
234-4390	15774	234-4454	15178	234-4606	13863	234-4627	13306
234-4390	15776	234-4454	15818	234-4606	15322	234-4628	15314
234-4390	15922	234-4454	15822	234-4607	13115	234-4629	13287
234-4392	15253	234-4457	13878	234-4608	13743	234-4629	13971



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Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.
DENSO (cont'd)		DENSO (cont'd)		DENSO (cont'd)		DENSO (cont'd)	
234-4629	15262	234-4655	15576	234-4693	13394	234-4731	15634
234-4630	13544	234-4656	13412	234-4694	15175	234-4732	13538
234-4630	13632	234-4656	13822	234-4695	15184	234-4732	15025
234-4630	13647	234-4656	15583	234-4696	15630	234-4732	15028
234-4631	13809	234-4656	15793	234-4697	13517	234-4732	15032
234-4631	13818	234-4657	13801	234-4698	15054	234-4732	15533
234-4631	15189	234-4657	15223	234-4698	15097	234-4732	15539
234-4631	15222	234-4658	15072	234-4700	15737	234-4732	15542
234-4631	15580	234-4659	13074	234-4701	15769	234-4732	15942
234-4631	15794	234-4659	13363	234-4701	15857	234-4733	13371
234-4633	13801	234-4660	13396	234-4701	15959	234-4734	13516
234-4633	13816	234-4661	13550	234-4702	13591	234-4734	15035
234-4633	13933	234-4662	13823	234-4702	15989	234-4734	15801
234-4633	15349	234-4663	15024	234-4703	13257	234-4735	15626
234-4633	15353	234-4664	13267	234-4703	13725	234-4736	15638
234-4633	15358	234-4664	13736	234-4703	13727	234-4738	13410
234-4633	15452	234-4664	13842	234-4703	15867	234-4738	13795
234-4633	15454	234-4665	15160	234-4703	15957	234-4738	13801
234-4633	15456	234-4666	13740	234-4703	15961	234-4738	15069
234-4633	15460	234-4666	15026	234-4703	15985	234-4738	15357
234-4633	15593	234-4666	15160	234-4703	15987	234-4738	15515
234-4633	15597	234-4667	13552	234-4704	13226	234-4738	15615
234-4634	13132	234-4668	13779	234-4704	13264	234-4738	15792
234-4635	13130	234-4668	15133	234-4704	15959	234-4739	15514
234-4636	13460	234-4668	15155	234-4704	15961	234-4741	15193
234-4636	15068	234-4668	15156	234-4705	13271	234-4741	15578
234-4637	13460	234-4668	15200	234-4705	15757	234-4741	15589
234-4637	13844	234-4668	15201	234-4706	13469	234-4741	15600
234-4637	15348	234-4668	15284	234-4707	13052	234-4741	15615
234-4638	13460	234-4668	15564	234-4708	13599	234-4742	13412
234-4638	13832	234-4669	15130	234-4709	13584	234-4742	15458
234-4639	13408	234-4669	15248	234-4710	13515	234-4742	15462
234-4639	15609	234-4669	15282	234-4711	13427	234-4742	15599
234-4640	13812	234-4670	13231	234-4711	13429	234-4742	15603
234-4641	13417	234-4671	13231	234-4712	13314	234-4744	13937
234-4641	13480	234-4671	13522	234-4713	13650	234-4746	13937
234-4641	13804	234-4671	13523	234-4713	13651	234-4747	13717
234-4641	15359	234-4672	13477	234-4714	15769	234-4749	15825
234-4641	15611	234-4672	13559	234-4714	15871	234-4750	15316
234-4642	13805	234-4672	15668	234-4714	15873	234-4751	13885
234-4642	15338	234-4673	15114	234-4715	13268	234-4752	13688
234-4642	15360	234-4673	15283	234-4715	15378	234-4752	13868
234-4642	15592	234-4674	13067	234-4716	13273	234-4752	15267
234-4643	13598	234-4674	13068	234-4716	13278	234-4752	15555
234-4644	13598	234-4674	13109	234-4716	13653	234-4755	15056
234-4645	13801	234-4675	13231	234-4716	15769	234-4756	13687
234-4645	13822	234-4676	13231	234-4718	13610	234-4756	13775
234-4645	15350	234-4677	13949	234-4718	15508	234-4764	13937
234-4645	15351	234-4678	15138	234-4719	13687	234-4766	15306
234-4646	13455	234-4679	13951	234-4720	15048	234-4767	13687
234-4646	15554	234-4680	13453	234-4721	13870	234-4767	15308
234-4647	13178	234-4681	13475	234-4722	13887	234-4768	13687
234-4647	13780	234-4681	13752	234-4722	15266	234-4769	13687
234-4647	15280	234-4682	13755	234-4723	13581	234-4770	13664
234-4648	13041	234-4683	15109	234-4724	13581	234-4771	13610
234-4649	13035	234-4683	15669	234-4724	15708	234-4771	15506
234-4650	13193	234-4684	13475	234-4725	15314	234-4772	13671
234-4651	13178	234-4685	13108	234-4726	13096	234-4772	13714
234-4651	13787	234-4686	13404	234-4727	13256	234-4775	15949
234-4651	15142	234-4686	13797	234-4727	13377	234-4775	15951
234-4652	13796	234-4687	15076	234-4728	13637	234-4776	13374
234-4653	15825	234-4688	15432	234-4728	15398	234-4776	15377
234-4654	13937	234-4688	15433	234-4729	13974	234-4776	15967
234-4655	13412	234-4689	15099	234-4729	15477	234-4777	13348
234-4655	13815	234-4690	13367	234-4730	15478	234-4777	13374
234-4655	15352	234-4691	13459	234-4730	15484	234-4778	15963
234-4655	15354	234-4692	13458	234-4731	15293	234-4779	15857

Competitor Cross Reference

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Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.
DENSO (cont'd)		DENSO (cont'd)		DENSO (cont'd)		DENSO (cont'd)	
234-4779	15881	234-4827	16700	234-4862	16292	234-4912	16623
234-4783	13923	234-4828	16671	234-4863	16197	234-4913	16175
234-4784	13981	234-4829	16611	234-4863	16199	234-4914	16173
234-4785	13761	234-4829	16785	234-4863	16446	234-4915	16825
234-4788	13927	234-4829	16797	234-4864	16488	234-4915	16826
234-4789	13884	234-4829	16833	234-4865	16100	234-4916	16506
234-4797	13704	234-4830	16063	234-4865	16541	234-4918	16697
234-4797	15409	234-4831	16613	234-4866	16198	234-4919	16205
234-4798	15626	234-4831	16741	234-4867	16200	234-4923	16435
234-4798	15936	234-4831	16837	234-4867	16447	234-4950	15074
234-4800	15310	234-4831	16919	234-4868	16281	234-4951	15373
234-4801	15309	234-4832	16385	234-4869	16300	234-4953	13789
234-4802	15290	234-4832	16862	234-4869	16392	234-5001	15146
234-4802	15559	234-4832	16958	234-4870	15664	234-5002	15143
234-4803	13619	234-4833	16661	234-4871	16893	234-5002	17205
234-4804	13355	234-4833	16698	234-4872	16159	234-5003	15493
234-4805	13355	234-4833	16816	234-4873	16544	234-5003	17018
234-4806	15119	234-4833	16831	234-4874	16247	234-5004	17201
234-4807	16404	234-4834	16889	234-4874	16259	234-5005	17275
234-4808	16109	234-4835	16513	234-4875	16793	234-5006	16065
234-4808	16257	234-4835	16596	234-4875	16864	234-5006	16066
234-4808	16373	234-4837	13494	234-4876	15167	234-5007	15388
234-4808	16495	234-4838	13494	234-4876	16795	234-5007	17300
234-4808	16704	234-4841	16261	234-4877	16794	234-5010	13965
234-4808	16727	234-4841	16307	234-4877	16808	234-5010	15070
234-4809	16121	234-4841	16582	234-4880	15122	234-5010	15401
234-4809	16213	234-4841	16663	234-4881	15124	234-5010	15906
234-4809	16249	234-4842	16851	234-4881	16749	234-5010	15910
234-4809	16255	234-4843	16849	234-4882	13695	234-5011	15374
234-4809	16296	234-4844	16406	234-4883	13875	234-5014	15782
234-4809	16305	234-4845	16067	234-4883	16167	234-5015	15788
234-4809	16363	234-4845	16091	234-4883	16272	234-5050	15393
234-4809	16418	234-4845	16371	234-4883	16438	234-5050	15405
234-4809	16515	234-4846	16442	234-4884	16123	234-5052	13025
234-4809	16550	234-4846	16667	234-4885	16276	234-5052	13246
234-4809	16559	234-4847	16069	234-4886	13807	234-5053	13954
234-4809	16587	234-4847	16283	234-4887	13808	234-5053	13958
234-4809	16589	234-4848	16243	234-4888	13494	234-5060	17204
234-4809	16609	234-4848	16334	234-4889	13812	234-5060	17264
234-4810	15121	234-4848	16412	234-4890	16324	234-5061	15667
234-4811	16302	234-4848	16416	234-4891	16322	234-5061	17179
234-4811	16444	234-4848	16452	234-4892	16792	234-5062	17287
234-4811	16584	234-4848	16498	234-4892	16796	234-5072	17044
234-4811	16665	234-4848	16554	234-4892	16809	234-5073	17234
234-4812	16287	234-4848	16586	234-4893	16268	234-5074	17158
234-4813	16669	234-4849	16383	234-4893	16320	234-5090	17115
234-4814	16511	234-4849	16829	234-4893	16353	234-5091	17019
234-4815	16717	234-4849	16891	234-4893	16359	234-5100	17116
234-4816	15494	234-4849	16895	234-4893	16456	234-5100	17246
234-4816	16532	234-4850	16557	234-4893	16475	234-5100	17258
234-4816	16726	234-4850	16575	234-4894	16125	234-5101	17349
234-4817	15147	234-4850	16702	234-4894	16473	234-5102	17061
234-4818	16746	234-4851	13356	234-4895	16274	234-5103	17348
234-4818	16828	234-4851	13461	234-4895	16751	234-5104	17084
234-4819	16861	234-4852	13391	234-4896	16747	234-5104	17328
234-4820	15280	234-4852	13565	234-4897	16179	234-5105	17322
234-4821	16378	234-4853	15541	234-4897	16318	234-5105	17432
234-4821	16379	234-4854	15337	234-4897	16348	234-5106	17237
234-4822	16064	234-4854	15346	234-4898	16183	234-5107	17040
234-4822	16146	234-4855	15341	234-4899	16328	234-5107	17045
234-4823	16517	234-4858	15643	234-4899	16420	234-5107	17298
234-4824	16363	234-4858	15644	234-4899	16753	234-5107	17307
234-4824	16400	234-4859	16422	234-4901	16330	234-5107	17336
234-4824	16729	234-4859	16591	234-4902	16276	234-5107	17344
234-4825	16887	234-4860	16291	234-4910	16624	234-5108	17003
234-4826	16659	234-4861	16101	234-4911	16174	234-5108	17046
234-4826	16839	234-4861	16682	234-4911	16433	234-5108	17055



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Competitor Cross Reference

Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.
DENSO (cont'd)		DENSO (cont'd)		DENSO (cont'd)		DENSO (cont'd)	
234-5108	17068	234-5134	17243	234-9040	15400	234-9120	15011
234-5108	17086	234-5134	17255	234-9041	15960	234-9120	15019
234-5108	17276	234-5135	17037	234-9042	15571	234-9121	15928
234-5108	17326	234-5135	17039	234-9042	15622	234-9122	15636
234-5109	17059	234-5136	17028	234-9042	15966	234-9122	15930
234-5109	17088	234-5136	17029	234-9043	13735	234-9123	15169
234-5109	17296	234-5136	17093	234-9044	13997	234-9123	15171
234-5110	17330	234-5136	17126	234-9044	15093	234-9125	15375
234-5111	17085	234-5137	15168	234-9044	15116	234-9150	13118
234-5111	17090	234-5137	17016	234-9044	15486	234-9150	13514
234-5111	17163	234-5137	17019	234-9044	15623	234-9150	15177
234-5111	17193	234-5137	17099	234-9044	15691	234-9150	15179
234-5111	17235	234-5137	17124	234-9044	15764	234-9150	15806
234-5111	17403	234-5137	17215	234-9044	15764	234-9151	15817
234-5112	17005	234-5137	17216	234-9046	15108	234-9152	15179
234-5112	17121	234-5138	17091	234-9046	15572	234-9152	15180
234-5112	17229	234-5138	17094	234-9046	15763	234-9152	15810
234-5112	17313	234-5139	17020	234-9046	15934	EAGLE	
234-5113	17256	234-5139	17098	234-9046	15962	JO854136	12046
234-5114	17346	234-5139	17117	234-9047	13737	MD119210	12053
234-5115	17109	234-5140	17051	234-9047	15013	MD131446	12053
234-5115	17189	234-5430	15646	234-9047	15964	MD136308	13598
234-5116	17002	234-5700	17070	234-9050	15095	MD136309	12053
234-5116	17032	234-5700	17137	234-9050	15198	MD136493	13598
234-5116	17054	234-5701	17136	234-9050	15765	MD150609	12023
234-5116	17430	234-5701	17188	234-9050	15998	MD154365	12053
234-5117	17014	234-5702	15176	234-9051	15101	MD175110	13473
234-5117	17105	234-5702	17034	234-9051	15110	MD176183	13928
234-5117	17125	234-5702	17038	234-9051	15117	MD182793	13218
234-5117	17140	234-5702	17332	234-9051	15988	MD183399	13832
234-5117	17161	234-5703	17036	234-9051	15996	MD184939	13417
234-5117	17174	234-5703	17134	234-9052	15163	MD185334	13460
234-5117	17227	234-5703	17135	234-9052	15690	MD185335	13460
234-5117	17244	234-5705	17035	234-9052	15767	MD186392	13830
234-5117	17315	234-9001	13613	234-9052	15974	MD188208	13598
234-5118	17071	234-9002	13613	234-9053	15118	MD189007	13830
234-5118	17324	234-9002	13998	234-9053	15768	MD302068	15348
234-5118	17334	234-9003	13998	234-9054	15984	MD307258	13801
234-5119	17030	234-9004	13680	234-9055	13737	MD313819	13425
234-5119	17318	234-9005	13680	234-9056	15624	TO708955	12046
234-5120	13922	234-9005	13706	234-9057	15489	TO729963	11032
234-5121	17191	234-9006	13678	234-9057	15968	FERRARI	
234-5121	17262	234-9007	15217	234-9058	13996	121515	13957
234-5122	17095	234-9009	15217	234-9060	15260	142514	13120
234-5122	17177	234-9010	13733	234-9060	15264	146650	13120
234-5123	17097	234-9010	15926	234-9061	13437	155010	13309
234-5123	17221	234-9011	15502	234-9062	13982	161853	13568
234-5124	17157	234-9011	15537	234-9062	15268	162462	13819
234-5124	17260	234-9013	15394	234-9062	15286	165170	13820
234-5125	17082	234-9014	13493	234-9063	13940	178290	17001
234-5126	17183	234-9014	13512	234-9063	15017	180915	16196
234-5127	17101	234-9015	15501	234-9064	15052	182837	17001
234-5128	17057	234-9016	15627	234-9064	15574	FIAT	
234-5129	17138	234-9017	15473	234-9064	15946	112016	11051
234-5129	17223	234-9018	13557	234-9064	15954	4430291	11051
234-5130	16213	234-9018	15015	234-9065	15082	FORD	
234-5130	17053	234-9019	13626	234-9065	15950	1F53-9F472-BA	15959
234-5130	17113	234-9020	15057	234-9066	15482	1F5Z-9F472-BA	15959
234-5130	17233	234-9020	15558	234-9070	15380	1R3Z-9G444-AA	15716
234-5131	17320	234-9021	13540	234-9071	15381	1R3Z-9G444-CA	15645
234-5132	17254	234-9023	15217	234-9072	15368	1R3Z-9G444-DA	15718
234-5133	17149	234-9024	13733	234-9073	15382	3S4Z-9F472-BA	15717
234-5133	17160	234-9025	13493	234-9074	15824	3S4Z-9F472-CA	15663
234-5133	17208	234-9028	13540	234-9075	13476	4L3A-9G444-AA	15664
234-5133	17278	234-9029	15627	234-9085	15918	4L3Z-9G444-AA	15664
234-5134	17175	234-9030	15846	234-9087	15463		
234-5134	17176	234-9032	15796	234-9088	15784		

Competitor Cross Reference

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Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.
FORD (cont'd)		FORD (cont'd)		FORD (cont'd)		FORD (cont'd)	
5C5Z-9F472-AA	15716	E59F-9F472-AA	13913	E8GY-9F472-A	12054	F1UZ-9F472-C	15718
5C5Z-9F472-BA	15717	E59Z-9F472-A	13913	E8GY-9F472-F	12054	F2AF-9F472-AA	15716
5F9Z-9G444-AA	15717	E63F-9F472-AA	12909	E8TZ-9F472-B	13953	F2AF-9F472-BA	15717
5F9Z-9G444-AB	15001	E63F-9F472-AB	12909	E92Z-9F472-A	12054	F2AF-9F472-CA	15718
5F9Z-9G444-BA	15717	E63Z-9F472-A	12909	E93F-9F472-AA	13942	F2AZ-9F472-A	15716
5F9Z-9G444-FA	15001	E65Z-9F472-A	13942	E93F-9F472-BA	13953	F2AZ-9F472-C	15718
5L8A-9G444-D2A	15722	E67F-9F472-AA	13913	E93F-9F472-CA	13953	F32Z-9F472-A	15708
5L8A-9G444-H2A	15724	E67F-9F472-BA	13913	E93F-9F472-DA	13942	F32Z-9F472-B	15708
5L8Z-9F472-BA	15717	E67F-9F472-CA	13913	E93F-9F472-EA	13942	F32Z-9F472-C	15708
5L8Z-9G444-A	15718	E67Z-9F472-B	13913	E95F-9F472-AA	13942	F39F-9F472-AA	15716
5L8Z-9G444-F	15724	E67Z-9F472-CA	13913	E97F-9F472-A	13942	F39F-9F472-AB	15716
5L8Z-9G444-G	15723	E6DF-9F472-AA	12909	E97F-9F472-AA	13942	F39F-9F472-BA	15717
5L8Z-9G444-H	15724	E6DZ-9F472-A	12909	E97F-9F472-BA	13953	F39F-9F472-BB	15717
5M6A-9G444-B2A	15752	E6DZ-9F472-B	12909	E97F-9F472-CA	13953	F39F-9F472-CA	15718
5M6Z-9G444-A	15752	E6SE-9F472-AA	13942	E97F-9F472-DA	13953	F39F-9F472-CB	15718
5S4A-9G444-B2A	15753	E6SE-9F472-BA	13942	E97F-9F472-AA	12054	F39Z-9F472-A	15716
5S4A-9G444-BA	15753	E6SE-9F472-CA	13942	E9EF-9F472-AA	13942	F39Z-9F472-AFFV	15717
5S4A-9G444-C2A	15754	E6SF-9F472-AA	13942	E9EF-9F472-DA	13942	F39Z-9F472-C	15718
5S4Z-9F472-AA	15804	E6SF-9F472-BA	13942	E9EF-9F472-EA	13942	F39Z-9F472-D	15716
5S4Z-9G444-AA	15802	E6SF-9F472-CA	13942	E9PF-9F472-AA	13942	F3DZ-9F472-BFFV	15717
5S4Z-9G444-BA	15753	E6SG-9F472-A	13942	E9SF-9F472-AA	13942	F3DZ-9F472-CFFV	15717
5S4Z-9G444-CA	15802	E6SZ-9F472-A	12909	E9SF-9F472-BA	13953	F3UF-9F472-AA	15716
5W6A-9G444-BA	15717	E6SZ-9F472-B	13942	E9SF-9F472-CA	13953	F3UF-9F472-AB	15716
5W6Z-9G444-AA	15716	E6TF-9F472-AA	13913	E9TF-9F472-AA	15716	F3UF-9F472-BA	15717
5W6Z-9G444-BA	15717	E6TF-9F472-BA	13913	E9WF-9F472-AA	13942	F3UF-9F472-CA	15718
6E5Z-9G444-AA	15716	E6TF-9F472-CA	13913	E9WZ-9F472-A	13942	F3UZ-9F472-A	15716
6L7Z-9F472-BA	15717	E6TZ-9F472-A	13913	EODE-9F472-AA	12909	F3UZ-9F472-B	15717
7T4A-9F472-A1A	15755	E6TZ-9F472-AA	13942	E0FZ-9F472-B	12909	F3UZ-9F472-C	15718
7T4Z-9F472-A	15755	E6TZ-9F472-B	13913	F02F-9F472-AA	13942	F3XA-9F472-AB	13972
87GB-9F472-BA	13054	E6TZ-9F472-C	13913	F03F-9F472-A	13942	F3XY-9F472-A	13972
8F9Z-9F472-A	17066	E6TZ-9F472-D	13913	F03Z-9F472-A	13942	F42Z-9F472-A	15709
94BB-9F472-DA	13115	E6ZF-9F472-AA	12909	F03Z-9F472-AA	13942	F42Z-9F472-C	15709
96BB-9F472-AA	13115	E6ZF-9F472-AB	12909	F09Z-9F472-A	15716	F47F-9F472-CA	15718
96BB-9F472-BA	13115	E6Z-F9F472-AC	12909	F09Z-9F472-C	15718	F47Z-9F472-C	15718
96BB-9F472-BB	13115	E6ZF-9F472-BA	12909	F0BZ-9F472-B	12038	F48F-9F472-AA	15716
98AB-9G444-BB	15717	E6ZF-9F472-CA	12909	F0BZ-9F472-C	12038	F48F-9F472-AB	15716
D8EE-9F472-AA	12909	E6ZZ-9F472-A	12909	F0C6-9F472-EB	12038	F48F-9F472-BB	15717
D8FZ-9F472-A	12909	E6ZZ-9F472-B	12909	F0JY-9F472-A	12054	F48F-9F472-BC	15717
D9AE-9F472-AA	12909	E73F-9F472-AA	13953	F0JY-9F472-B	12054	F48F-9F472-BD	15717
D9AE-9F472-AB	12909	E73F-9F472-BA	13953	F0PZ-9F472-A	13942	F48F-9F472-CA	15718
D9EE-9F472-AA	12909	E73F-9F472-CA	13953	F0PZ-9F472-AA	13942	F48F-9F472-CB	15718
D9EE-9F472-AB	12909	E73Z-9F472-A	13953	F0SE-9F472-AA	13913	F48Z-9F472-A	15716
D9FZ-9F472-A	12909	E73Z-9F472-B	13953	F0SF-9F472-AA	15716	F48Z-9F472-B	15717
E0DE-9F472-AA	12909	E73Z-9F472-BA	13953	F0SF-9F472-BA	15717	F48Z-9F472-C	15718
E0FZ-9F472-B	12909	E73Z-9F472-C	13983	F0SF-9F472-CA	15718	F4AF-9F472-A	13127
E0ZE-9F472-AA	12909	E77F-9F472-AA	13942	F0SZ-9F472-A	13942	F4AF-9F472-BA	15717
E1AF-9F472-AA	12909	E77F-9F472-AB	13942	F0SZ-9F472-B	13953	F4AZ-9F472-A	13127
E1AZ-9F472-A	12909	E77F-9F472-BA	13942	F0TZ-9F472-A	15716	F4AZ-9F472-B	15717
E1SE-9F472-AA	12909	E7RY-9F472-A	13054	F0TZ-9F472-C	15718	F4BZ-9F472-A	15271
E1SF-9F472-AA	12909	E7SF-9F472-AA	13953	F0TZ-9F472-D	15717	F4DF-9F472-AA	15716
E3BF-9F472-AA	12909	E7SF-9F472-BA	13953	F0TZ-9F472-E	13953	F4DZ-9F472-A	15716
E3EF-9F472-AA	12909	E7SF-9F472-CA	13953	F0UF-9F472-AA	15716	F4DZ-9F472-B	15717
E3FZ-9F472-A	12909	E7TE-9F472-AA	13913	F0UF-9F472-BA	15717	F4SF-9F472-AB	13127
E3TZ-9F472-B	12909	E7TE-9F472-CA	13913	F0UF-9F472-CA	15718	F4SF-9F472-DA	13127
E42F-9F472-AA	13913	E7TE-9F472-DA	13953	F0UZ-9F472-C	15718	F4SZ-9F472-A	13127
E43Z-9F472-A	12909	E7TE-9F472-EA	13953	F0WF-9F472-AA	15716	F4SZ-9F472-D	13127
E47F-9F472-AA	12909	E7TF-9F472-A	13942	F17F-9F472-AA	15716	F4UF-9F472-AA	15716
E47F-9F472-BA	12909	E7TF-9F472-BA	13942	F1CF-9F472-A	12038	F4UF-9F472-BA	15717
E4ZE-9F472-AA	13913	E7TF-9F472-CA	13913	F1CZ-9F472-A	12038	F4UF-9F472-CA	15718
E4ZF-9F472-AA	13913	E7TF-9F472-DA	13953	F1S2-9F472-A	15716	F4UZ-9F472-A	15716
E4ZF-9F472-BA	13913	E7TF-9F472-EA	13953	F1S2-9F472-B	15717	F4UZ-9F472-B	15717
E4ZZ-9F472-A	13913	E7TF-9F472-BA	13953	F1SZ-9F472-B	15717	F4UZ-9F472-C	15718
E53F-9F472-AA	12909	E7TF-9F472-CA	13953	F1T2-9F472-A	15716	F4UZ-9F472-D	15718
E53Z-9F472-B	12909	E7TF-9F472-DA	13953	F1UF-9F472-AA	15716	F4XA-9F472-A	15718
E59F-9F472-A1A	13913	E7TF-9F472-EA	13953	F1UF-9F472-BA	15717	F4XA-9F472-AC	13416
E59F-9F472-A2A	13913	E7TZ-9F472-A	13942	F1UF-9F472-CA	15718	F4XY-9F472-A	13416
E59F-9F472-A3A	13913	E7TZ-9F472-B	13953	F1UZ-9F472-A	15716	F4ZF-9F472-A	13127
		E8BZ-9F472-A	12054	F1UZ-9F472-B	15717	F4ZF-9F472-AB	13127



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Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.
FORD (cont'd)		FORD (cont'd)		FORD (cont'd)		FORD (cont'd)	
F4ZF-9F472-BB	13133	F6C6-9F472-AA	13578	F7XZ-9F472-FA	13591	XC2Z-9F472-BB	15717
F4ZF-9G444-AA	15716	F6CF-9G444-BA	13133	F7XZ-9F472-FB	13591	XF52-9F472-HA	15769
F4ZF-9G444-AB	15716	F6CF-9G444-CA	13133	F85A-9G444-AB	15716	XF52-9F472-HB	15769
F4ZF-9G444-BB	15717	F6CF-9G444-DA	13131	F85F-9G444-AB	15716	XF52-9G444-BA	15819
F4ZF-9G444-CB	15718	F6CF-9G444-DB	13131	F85F-9G444-BA	15717	XF52-9G444-CA	15881
F4ZF-9G444-DB	15719	F6CF-9G444-DC	13131	F85F-9G444-CA	15718	XF52-9G444-DA	13311
F4ZZ-9F472-A	13127	F6CZ-9F472-AA	13578	F85F-9G444-DA	15719	XF5Z-9F472-GA	15857
F4ZZ-9F472-AB	13127	F6CZ-9F472-BB	15716	F85F-9G444-EA	15716	XF5Z-9F472-HA	15769
F4ZZ-9F472-B	13133	F6CZ-9G444-BA	13133	F85Z-9G444-AA	15716	XF5Z-9F472-HB	15769
F4ZZ-9F472-C	15717	F6CZ-9G444-DA	13131	F85Z-9G444-AB	15716	XF5Z-9G444-BA	15819
F4ZZ-9G444-A	15716	F6CZ-9G444-DB	13131	F85Z-9G444-BA	15717	XF5Z-9G444-CA	15881
F4ZZ-9G444-B	15717	F6DF-9G444-AA	13127	F85Z-9G444-CA	15718	XF5Z-9G444-DA	13311
F4ZZ-9G444-C	15718	F6DF-9G444-B2A	13133	F85Z-9G444-DA	15719	XL3F-9F472-AA	15664
F4ZZ-9G444-D	15719	F6DF-9G444-BA	13133	F85Z-9G444-E	15716	XL3F-9F472-BA	13117
F57Z-9G444-C	15718	F6DF-9G444-E1A	13133	F85Z-9G444-F	15717	XL3F-9F472-CA	15664
F59Z-9G444-AA	15717	F6DF-9G444-E2A	13133	F88F-9F472-AA	15716	XL3Z-9F472-DA	13117
F5AF-9G444-AB	13127	F6DF-9G444-EA	13133	F88F-9F472-AB	15716	XL3Z-99F472-BAFC	13117
F5AF-9G444-BB	13133	F6DZ-9G444-AA	13127	F88F-9F472-BA	15717	XL3Z-9F472-AA	15664
F5AF-9G444-CB	15718	F6DZ-9G444-B	13133	F88F-9F472-CA	15719	XL3Z-9F472-BA	13117
F5AZ-9G444-A	13127	F6DZ-9G444-C	13131	F88F-9F472-EA	15718	XL3Z-9F472-C	15664
F5AZ-9G444-B	13133	F6DZ-9G444-CA	13131	F88Z-9F472-AA	15716	XL3Z-9F472-D	13117
F5AZ-9G444-CB	15718	F6DZ-9G444-E2A	13133	F88Z-9F472-AB	15716	XR3F-9G444-A2A	15716
F5CZ-9F472-A	13579	F6DZ-9G444-EA	13133	F88Z-9F472-BA	15717	XR3F-9G444-AA	15717
F5MF-9F472-A2A	13127	F6MF-9F472-AA	13127	F88Z-9F472-CA	15718	XR3F-9G444-B2A	15717
F5MF-9F472-AA	13127	F6MZ-9F472-AA	13127	F88Z-9F472-EA	15718	XR3F-9G444-BA	15717
F5MF-9F472-B1B	13117	F6RZ-9F472-AA	13115	F8BZ-9F472-BA	15675	XR3F-9G444-D2B	15719
F5MF-9F472-B2B	13117	F6SF-9F472-AA	13942	F8CZ-9F472-BB	13131	XR3F-9G444-DA	15719
F5MF-9G444-A	13117	F6SF-9F472-BA	13942	F8RF-9G444-BB	15717	XR3Z-9G444-AA	15716
F5MF-9F472-BB	13117	F6SF-9F472-CA	13942	F8RZ-9G444-BB	15717	XR3Z-9G444-AB	15717
F5MF-9F472-DB	13117	F6SZ-9F472-A	13942	F8TF-9G444-CA	15718	XR3Z-9G444-BA	15717
F5MF-9F472-DC	13117	F6SZ-9F472-B	13942	F8TZ-9G444-CA	15718	XR3Z-9G444-BB	15717
F5MZ-9F472-AA	13127	F6TF-9G444-CA	15718	F8VF-9F472-AA	15716	XR3Z-9G444-CA	15716
F5MZ-9F472-B	13117	F6TZ-9G444-CA	15718	F8VZ-9F472-AA	15716	XR3Z-9G444-EA	15716
F5MZ-9F472-DB	13117	F6XA-9F472-BA	13591	F8VZ-9F472-BA	15717	XR3Z-9G444-FA	15717
F5RZ-9F472-AA	13115	F6XA-9F472-CA	13591	F8XZ-9F472-CA	15881	XR3Z-9G444-HA	15716
F5RZ-9F472-AB	13115	F6XA-9F472-CB	13591	FO2Z-9F472-A	12061	XR3Z-9G444-JA	15716
F5RZ-9F472-D	13115	F6XA-9G444-AA	13591	FO2Z-9F472-AA	12061	XS2A-9G444-AA	15717
F5TF-9G444-CA	15718	F6XZ-9F472-CA	13591	FO2Z-9F472-B	12061	XS2F-9G444-AA	15717
F5TZ-9G444-AA	15716	F6ZF-9G444-AA	13127	FO2Z-9F472-C	13942	XS2Z-9G444-AA	15717
F5TZ-9G444-C	15718	F6ZZ-9G444-AA	13127	FO3Z-9F472-A	13942	XS4Z-9G444-DA	15719
F5WF-9F472-BA	13133	F72Z-9F472-GG	13960	FO7F-9F472-AA	15716	YL84-9F472-AD	15718
F5WZ-9F472-BA	13133	F75F-9G444-AA	15716	FO7F-9F472-BA	15717	YL84-9F472-BC	15716
F5XA-9F472-AA	13416	F75F-9G444-BA	15717	FO7F-9F472-CA	15718	YL84-9G444-AC	15718
F5XZ-9F472-AA	13416	F75F-9G444-CA	15718	FO7F-9F472-DA	15718	YL84-9G444-CA	15718
F62Z-9F472-AA	13284	F75F-9G444-DA	15719	FO9F-9F472-AA	15716	YL8Z-9F472-AA	15718
F62Z-9F472-BB	13287	F75Z-9G444-AA	15716	FO9F-9F472-BA	15717	YL8Z-9F472-BA	15716
F62Z-9F472-CA	15708	F75Z-9G444-BA	15717	FO9F-9F472-CA	15718	YL8Z-9G444-AC	15718
F62Z-9F472-DD	13289	F75Z-9G444-CA	15718	FO9Z-9F472-C	15718	YL8Z-9G444-BA	13743
F62Z-9F472-EE	13284	F75Z-9G444-DA	15719	FOBZ-9F472-B	12038	YL8Z-9G444-CA	15718
F62Z-9F472-FF	15314	F75Z-9G444-DB	15719	FOJY-9F472-B	12054	YS4Z-9G444-AA	15312
F62Z-9F472-GG	13306	F77Z-9F472-BA	15717	FOPZ-9F472-AA	15718		
F62Z-9F472-HH	15708	F78F-9F472-AA	15716	FOSF-9F472-BA	15717	GM	
F65F-9G444-AA	15716	F78F-9F472-BA	15717	FOSZ-9F472-A	13942	10042186	12014
F65F-9G444-BA	15717	F78F-9F472-CA	15718	FOSZ-9F472-B	13953	10096129	13077
F65F-9G444-CA	15718	F78F-9F472-EB	15719	FOTZ-9F472-C	15718	10137641	13077
F65F-9G444-DA	15719	F78Z-9F472-AA	15716	FOTZ-9F472-D	15717	12328546	12919
F65Z-9G444-AA	15716	F78Z-9F472-BA	15717	FOTZ-9F472-E	13953	12328547	12919
F65Z-9G444-BA	15717	F78Z-9F472-CA	15718	FOUF-9F472-CA	15718	12351019	12009
F65Z-9G444-CA	15718	F78Z-9F472-EA	15716	FOUZ-9F472-C	15718	12351020	12008
F65Z-9G444-DA	15719	F7BZ-9F472-BA	15675	GL7Z-9F472-BA	15777	12351023	12053
F68F-9F472-AA	15716	F7RZ-9G444-BA	15717	XC2F-9F472-A1A	15716	12351024	12051
F68F-9F472-BA	15717	F7TZ-9G444-BB	15717	XC2F-9F472-AA	15716	12351025	12051
F68F-9F472-CA	15718	F7TF-9G444-CA	15718	XC2F-9F472-B1A	15716	12500893	15130
F68Z-9F472-AA	15716	F7TZ-9G444-CA	15718	XC2F-9F472-BA	15717	12558143	13455
F68Z-9F472-BA	15717	F7XA-9F472-CA	13591	XC2F-9G444-AA	15716	12558849	13178
F68Z-9F472-CA	15718	F7XA-9F472-FB	13591	XC2Z-9F472-AA	15716	12558850	13193
F6BZ-9F472-AA	15675	F7XA-9F472-FC	13591	XC2Z-9F472-BA	15716	12559848	13178

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Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.
GM (cont'd)		GM (cont'd)		GM (cont'd)		GM (cont'd)	
12559849.	13178	12586646.	15696	19178930.	15703	25165314.	15700
12559850.	13193	12586996.	13847	19178933.	13111	25166816.	12014
12561776.	13193	12587037.	16726	19178934.	13027	25167114.	13450
12561777.	13178	12587096.	17275	19178938.	15700	25167115.	13055
12562621.	13178	12587214.	13444	19178958.	13474	25168561.	11027
12562943.	13193	12587533.	16532	19211435.	12028	25170120.	13450
12563312.	13022	12587785.	15284	19211437.	12014	25171572.	12014
12563848.	13191	12588036.	15164	21020136.	13043	25171573.	12014
12565397.	13686	12588274.	15549	21022009.	13050	25171574.	12014
12565414.	13686	12588976.	13872	21022987.	13053	25171579.	15703
12565415.	13701	12589321.	15150	21024460.	13361	25171581.	12014
12565680.	13361	12589380.	15388	24402859.	16378	25173917.	13444
12567072.	15494	12589549.	15285	24402860.	16379	25175454.	13111
12567073.	15493	12589550.	15543	24403860.	16146	25176705.	13010
12567127.	13193	12590035.	16746	24450850.	16066	25176706.	12006
12567163.	15280	12590594.	15280	24576682.	13022	25176707.	12014
12567254.	13193	12590749.	15128	24576791.	13022	25176708.	13077
12567497.	13178	12590750.	15129	24577046.	13191	25176709.	13077
12568221.	13361	12590789.	13193	24577273.	15285	25176711.	12919
12568222.	13682	12590790.	15564	24577303.	15543	25176716.	12009
12568223.	15549	12590847.	15140	24577552.	13191	25176717.	12008
12568234.	15554	12592591.	15131	24577622.	13191	25176718.	12053
12569429.	15564	12592592.	15153	25037313.	12014	25176720.	12051
12569496.	15285	12594452.	15156	25105107.	12014	25176721.	12051
12569553.	13450	12594935.	16861	25105901.	12014	25176722.	12051
12570149.	15280	12596327.	17300	25106073.	12014	25178022.	13474
12570794.	15285	12596701.	15161	25106107.	12028	25178076.	15701
12570795.	15543	12596740.	15159	25106169.	12028	25311865.	13483
1257096	17275	12597449.	16828	25107378.	12014	25312178.	15702
12572705.	15282	12597875.	15146	25108814.	13077	25312179.	13077
12572707.	15283	12597876.	15147	25132068.	12014	25312184.	15703
12572772.	15280	12597878.	15133	25132086.	15702	25312185.	15700
12573005.	15284	12597912.	15143	25132169.	15701	25312188.	15703
12573167.	15284	12597947.	15254	25132207.	13444	25312191.	13027
12573168.	13787	12597989.	15137	25132535.	13077	25312194.	13474
12573721.	15545	12597990.	15136	25132789.	13077	25312195.	13450
12574218.	15554	12598176.	15449	25132819.	15703	25312196.	13444
12574662.	17201	12598296.	15144	25133185.	12014	25312197.	13444
12574924.	13780	12598297.	15145	25133503.	13077	25312198.	13055
12575389.	13178	12598300.	15165	25133504.	15703	25312199.	13450
12575657.	17205	12599204.	15241	25133505.	15700	25312200.	15703
12575658.	16532	12599866.	15151	25133737.	13423	25312201.	13474
12576131.	13779	12600893.	15130	25133791.	15703	25312202.	13111
12576711.	15044	12601759.	13256	25160540.	13027	25312203.	13474
12577588.	15285	12601760.	15912	25161128.	13474	25312204.	13450
12578459.	13444	12602047.	15154	25161130.	13444	25312206.	13111
12578461.	13682	12603139.	16717	25161131.	13444	25312207.	13444
12578574.	15549	12603814.	15696	25161151.	15703	25312209.	13450
12578575.	13682	12604538.	15113	25161152.	15700	25312211.	13474
12578576.	13361	12604575.	15251	25161530.	15701	25312215.	13483
12578624.	15543	12606671.	15697	25162600.	12014	25312222.	13111
12580466.	15139	12606908.	15468	25162693.	12013	25313961.	13111
12580827.	15152	12607145.	15114	25162753.	12014	25315218.	15503
12581346.	15543	12609159.	15165	25162980.	13450	25315373.	13474
12581687.	15906	12609457.	15698	25162981.	13450	25315809.	13026
12581688.	15910	12610969.	15141	25163079.	15703	25315814.	13027
12581689.	13256	12611127.	15201	25163080.	13474	25315815.	13029
12581690.	15912	12611870.	15248	25164155.	13423	25317697.	13111
12581966.	15000	12616506.	15699	25164488.	13474	25318321.	13444
12583190.	13455	14082487.	13010	25164727.	13450	25319622.	13450
12583290.	15564	15637653.	13077	25164983.	13444	25320812.	13111
12583804.	15200	1617639	12006	25165116.	12028	25327985.	15561
12583806.	15142	1643292	12006	25165118.	12014	25333812.	13178
12584050.	16717	19145300.	15284	25165119.	12028	25333817.	13694
12584925.	15155	19178116.	13474	25165311.	15702	25347721.	12028
12585549.	13111	19178747.	13444	25165312.	13077	25361764.	15561
12585999.	15132	19178922.	13444	25165313.	15703	30017453.	13035



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Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.
GM (cont'd)		GM (cont'd)		HONDA / ACURA (cont'd)		HONDA / ACURA (cont'd)	
30017465	13041	96068439	13500	36531-P8C-A21	13377	36531-PHM-A02	15393
30020694	15634	96068670	13073	36531-P8D-J21	13256	36531-PHM-A21	15394
30020695	13041	96394003	15561	36531-P8E-A01	13007	36531-PHM-A51	15394
30022576	13500	96394004	13852	36531-P8E-A11	13256	36531-PJ0-661	12050
30025315	15635	96403222	15227	36531-P8F-A11	13377	36531-PJ0-L01	12050
30025417	15634	96412900	15232	36531-PAA-305	13075	36531-PJ0-L02	12050
30025549	15294	96412985	15492	36531-PAA-306	13512	36531-PJ0-L03	12050
30025846	15295	96418965	15148	36531-PAA-307	13493	36531-PK1-014	12050
30026220	15634	96419956	15149	36531-PAA-A01	13075	36531-PK2-003	12050
30028571	13035	96437060	15233	36531-PAA-A02	13075	36531-PK2-004	12050
30028572	15293	96437061	15236	36531-PAA-L21	13493	36531-PK2-013	12050
30028573	15635	96443420	15240	36531-PAA-L22	13493	36531-PK2-014	13539
30028574	15634	97018587	15701	36531-PAA-L23	13493	36531-PK2-L01	12050
5613693	12028	97024256	13030	36531-PAA-L41	13512	36531-PK3-A02	15710
5613694	12028	97032102	13030	36531-PBC-A01	13249	36531-PK3-A04	13539
5613719	12028	97062292	15701	36531-PBF-A11	15478	36531-PK3-A05	15710
5613959	12014	HONDA / ACURA		36531-PBY-003	15484	36531-PL1-013	12050
88929726	12009	06365-PHK-A20	15064	36531-PBY-J01	15478	36531-PL2-003	12050
88971384	15310	06365-PHM-A20	15064	36531-PC7-661	12050	36531-PL2-013	12050
88971385	15290	06365-PMP-A00	15002	36531-PC7-662	12050	36531-PL2-023	12050
88971386	15309	36531-P05-A01	13947	36531-PC7-663	12050	36531-PL2-033	12050
88971387	15289	36531-P05-A02	13947	36531-PC7-664	12050	36531-PL2-033	12050
88971388	15290	36531-P06-A11	15710	36531-PC7-665	12050	36531-PL2-033	12050
88971389	15290	36531-P06-A12	15710	36531-PC7-682	12050	36531-PL2-033	12050
88972966	15559	36531-P07-003	13246	36531-PCC-014	13075	36531-PLM-A01	15710
88972967	15290	36531-P07-A01	13947	36531-PCX-000	15391	36531-PLM-A11	13680
88973751	15290	36531-P07-L01	13007	36531-PCX-004	15391	36531-PLM-A11	13680
88974123	15290	36531-P07-L02	13007	36531-PCX-014	15391	36531-PLR-003	15473
88974383	15163	36531-P0A-A01	13539	36531-PD2-305	12050	36531-PLR-A01	13532
8990469	12014	36531-P0A-A11	13539	36531-PD2-661	12050	36531-PLR-A01	13532
8990625	12014	36531-P0B-A01	13075	36531-PD2-662	12050	36531-PM5-A01	12050
8990741	12014	36531-P0G-A01	13007	36531-PD2-663	12050	36531-PM5-L01	12050
8990793	15701	36531-P12-A02	13322	36531-PD2-664	12050	36531-PM5-L02	12050
8991739	12028	36531-P12-A03	13322	36531-PD6-661	12050	36531-PM8-305	15396
90540984	15432	36531-P12-A12	13322	36531-PD6-662	12050	36531-PM8-A01	12050
90540985	15433	36531-P1H-E01	13249	36531-PDN-A01	15228	36531-PM8-A03	12050
91177407	13500	36531-P1K-E11	13249	36531-PD6-664	12050	36531-PMS-A01	15710
91177408	13073	36531-P1R-A01	13096	36531-PD6-665	12050	36531-PN4-J03	12050
91177409	13500	36531-P1R-A02	13096	36531-PE1-305	12050	36531-PND-A01	13678
91177410	13041	36531-P28-A01	13249	36531-PE1-662	12050	36531-PND-A11	13680
91177411	13041	36531-P28-A02	13249	36531-PE1-663	12050	36531-PND-A21	15946
9120293	16063	36531-P2E-A01	13007	36531-PE1-A02	12050	36531-PND-A31	15950
9182000	16064	36531-P2M-A01	13025	36531-PE2-902	12050	36531-PNE-003	15950
9198809	16065	36531-P2M-A02	13025	36531-PE2-903	12050	36531-PO5-A01	13947
94840346	12051	36531-P2P-A01	13371	36531-PE2-904	12050	36531-PP0-014	12050
94845519	12051	36531-P2R-A01	13249	36531-PE2-905	12050	36531-PP0-N02	12050
94846974	12100	36531-P2T-003	13539	36531-PE2-906	12050	36531-PPA-003	15052
94848614	13056	36531-P3F-A01	13539	36531-PE7-662	12050	36531-PPA-305	13706
94848999	13519	36531-P54-003	13539	36531-PE7-663	12050	36531-PPA-A01	13706
94850007	12202	36531-P5A-003	13184	36531-PG7-305	12050	36531-PR4-A01	12050
94850008	13525	36531-P5A-A01	15480	36531-PG7-315	12050	36531-PR4-L02	12050
94850731	12051	36531-P5G-003	13184	36531-PG7-661	12050	36531-PR7-003	15477
94851748	12106	36531-P5K-003	13322	36531-PG7-A01	12050	36531-PR7-A01	13938
94854938	12201	36531-P5M-004	13258	36531-PGE-A11	13256	36531-PR7-A02	13938
94854939	12102	36531-P5M-014	13258	36531-PGK-A03	13637	36531-PR7-A03	13527
94854940	12201	36531-P5P-004	13254	36531-PH2-004	12050	36531-PR7-A11	13938
94855429	12108	36531-P5P-014	13254	36531-PH2-014	12050	36531-PR7-J02	13938
94855430	13056	36531-P6W-A01	13060	36531-PH2-024	12050	36531-PRB-A01	13680
94858614	13056	36531-P72-A01	13539	36531-PH4-661	12050	36531-PRB-A11	15954
94858615	13051	36531-P72-A02	13539	36531-PH4-662	12050	36531-PT2-J02	15710
94859217	13056	36531-P72-J01	13539	36531-PH4-663	12050	36531-PT2-J04	15710
94859224	13051	36531-P73-G01	13539	36531-PH4-664	12050	36531-PT2-J05	15710
94859766	13051	36531-P75-A01	13539	36531-PH4-682	12050	36531-PT3-A02	15712
95859217	13056	36531-P8A-A01	13249	36531-PH7-003	12050	36531-PT3-A04	15712
96051853	12050	36531-P8C-A01	13249	36531-PH7-013	12050	36531-PT3-A05	15712
96058082	12055	36531-P8C-A11	13256	36531-PH7-305	12050	36531-PT3-A12	15712
96060174	12014			36531-PH7-315	12050	36531-PT6-A02	15710
				36531-PH7-732	12050	36531-PV0-024	13539
				36531-PHM-A01	15393	36531-PV1-A02	13539

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Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.
HONDA / ACURA (cont'd)		HONDA / ACURA (cont'd)		HONDA / ACURA (cont'd)		HONDA / ACURA (cont'd)	
36531-PVF-A01	15398	36532-PGK-A02	13639	36542-PR7-A51	13979	39210-33080	13571
36531-PY3-003	13184	36532-PH7-003	12050	36542-RCA-A01	15413	39210-33340	15245
36531-PZA-A01	13680	36532-PH7-013	12050	36542-RCJ-A01	15080	39210-33360	15319
36531-PZA-L01	13680	36532-PHM-A11	13075	36542-RDA-A01	13777	39210-33440	13745
36531-PZD-A01	15574	36532-PHM-A51	15405	36542-RDJ-A01	13959	39210-33460	13745
36531-PZX-003	15082	36532-PJ0-661	12050	36542-RJA-004	15944	39210-33460D	13745
36531-PZX-A01	15085	36532-PJ0-L01	12050	36542-RKB-004	13851	39210-33461	13745
36531-RAA-A01	15400	36532-PJ0-L02	12050	8-25163-079-0	15703	39210-35030	15541
36531-RAA-A02	15400	36532-PK2-003	12050	8-25165-313-0	15703	39210-35110	13745
36531-RBB-003	15482	36532-PL2-003	12050	8-25312-184-0	15703	39210-35121	13745
36531-RCA-A01	15401	36532-PL2-013	12050	8-25312-200-0	15703	39210-37120	13746
36531-RCA-A02	15401	36532-PLM-A01	13487	8-25312-200-0	15703	39210-37125	13746
36531-RDJ-A01	13965	36532-PLR-A01	13534	8-97024-256-0	13030	39210-3712A	13746
36531-RDM-A01	13965	36532-PLR-A11	13534	8-97062-292-0	15701	39210-37140	13747
36531-RDM-A02	13965	36532-PLR-A11	13534	8-97224-011-0	15703	39210-37145	13747
36531-RDV-004	15070	36532-PMM-A01	15479	8-97287-352-0	13193	39210-37160	13748
36531-RME-A01	15260	36532-PMP-A01	13707	AJD6-18-8619U	15199	39210-37165	13748
36531-RME-A51	15264	36532-PMS-A01	15406	AJF5-18-861A	15214	39210-3716A	13748
36531-RMX-A01	13940	36532-PND-A01	13677	HYUNDAI		39210-37180	13749
36531-RNA-003	15268	36532-PND-A11	15948	OK011-18-861	13797	39210-37190	15655
36531-RNA-A01	13982	36532-PND-A21	15952	39210-21320	12053	39210-37510	15651
36531-RRA-003	15017	36532-PPA-004	15476	39210-21340	12053	39210-37513	13463
36531-RWC-A01	13437	36532-PPA-A01	15476	39210-22010	13841	39210-37520	13358
36531-RYE-A01	13954	36532-PR7-003	13974	39210-22015	15540	39210-37523	13358
36531-RZA-003	15286	36532-PR7-A01	13184	39210-22020	13458	39210-37525	15653
36532-P0A-A01	13176	36532-PR7-A02	13007	39210-22025	13458	39210-37530	15654
36532-P0G-A01	13176	36532-PR7-A11	13938	39210-22026	13367	39210-37533	13446
36532-P0G-A02	13176	36532-PR7-J02	13938	39210-22030	13459	39210-37540	15655
36532-P13-A01	13176	36532-PRB-A01	13676	39210-22035	13458	39210-37543	13466
36532-P1E-A01	13258	36532-PRB-A11	15956	39210-22040	13841	39210-38005	13753
36532-P1R-A01	13093	36532-PY3-003	13938	39210-22045	13458	39210-38015	13751
36532-P2E-A01	13249	36532-PZA-A01	15407	39210-22050	13458	39210-38025	13753
36532-P2E-A51	13249	36532-PZA-J01	15408	39210-22051	13394	39210-38035	13754
36532-P2P-A01	13363	36532-PZA-L02	15476	39210-22100	13957	39210-39010	15034
36532-P2R-A01	13363	36532-PZD-A01	13371	39210-22105	13957	39210-39015	15033
36532-P3F-A01	13363	36532-PZX-004	15084	39210-22115	13839	39210-39025	15562
36532-P3F-A11	13363	36532-PZX-A01	15086	39210-22610	13461	39210-39027	13774
36532-P5A-003	13938	36532-RAA-A01	15409	39210-22620	13461	39210-39030	15656
36532-P5A-A01	15481	36532-RAA-A02	13704	39210-23020	13458	39210-39040	15050
36532-P5G-003	13938	36532-RAD-L11	15410	39210-23025	13458	39210-39500	15657
36532-P5M-A01	13258	36532-RAD-L12	15410	39210-23026	13367	39210-39550	15658
36532-P5M-A02	13258	36532-RCA-A01	15471	39210-23030	13459	39210-39600	15659
36532-P65A-003	13093	36532-RCA-A02	13840	39210-23035	13459	39210-39660	13773
36532-P6W-A01	13639	36532-RCA-A51	13256	39210-23036	13394	39210-39800	15661
36532-P72-A01	13074	36532-RCA-A52	15766	39210-23046	13394	39210-3C100	15337
36532-P73-A01	13074	36532-RCJ-A01	15079	39210-23500	13565	39210-3C200	15341
36532-P75-A01	13074	36532-RDB-A01	13114	39210-23700	15646	39210-3C400	15346
36532-P8A-A01	13176	36532-RDJ-A01	13256	39210-23710	13391	39210-3E210	15346
36532-P8C-A01	13176	36532-RJA-004	13256	39210-23750	13356	39210-3E220	15367
36532-P8C-A02	13176	36532-RKB-004	13853	39210-24520	13963		
36532-P8C-L01	13071	36532-RME-A01	15296	39210-24550	12053	ISUZU	
36532-P8C-L02	13071	36532-RMX-A01	13961	39210-24560	12022	5-86202-813-0	13060
36532-P8C-L21	13071	36532-RNA-A01	15009	39210-24600	13844	5-86202-814-0	13258
36532-P8D-J01	13656	36532-RRA-004	15027	39210-24610	13844	5-86205-842-0	13060
36532-P8F-A01	13322	36532-RWC-A01	13715	39210-24650	13843	5-86206-251-0	13258
36532-P8F-A11	13685	36532-RYE-A01	13744	39210-24660	13843	8-08990-351-0	12014
36532-PAA-A01	13176	36532-RZA-004	15318	39210-25110	15320	8-08990-741-0	12014
36532-PAA-A02	13176	36532-TEA-A01	13258	39210-25300	15334	8-08990-793-0	15701
36532-PAA-L01	13071	36535-P5A-A01	13093	39210-32500	12053	8-12567-127-0	13193
36532-PAA-L02	13071	36535-P5A-A51	13093	39210-32510	12053	8-12567-163-0	15280
36532-PAA-L41	13532	36535-P5G-A01	13093	39210-32520	12053	8-12573-167-0	15284
36532-PBF-A11	15477	36536-PMP-A01	15004	39210-32610	12023	8-12573-168-0	13787
36532-PBY-003	15478	36541-PR7-A01	13977	39210-32630	12023	8-12573-721-0	15545
36532-PBY-J01	15478	36541-PR7-A31	13977	39210-33000	13218	8-12577-588-0	15285
36532-PCX-A01	15403	36541-PR7-A51	13978	39210-33010	13218	8-12578-624-0	15543
36532-PDN-A01	13249	36541-RYE-A01	13958	39210-33030	13571	8-12585-999-0	15132
36532-PEA-A01	13258	36542-PR7-A01	15479	39210-33070	13571	8-12587-214-0	13444



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ISUZU (cont'd)		JAGUAR (cont'd)		KIA (cont'd)		MAZDA (cont'd)	
8-12592-591-0	15131	XR8 1557	15717	MBPD3-18-861	15322	B359-18-861	12054
8-24576-791-0	13022	XR8 2007	15717	MBPD3-18-861A	15322	B376-18-861	12038
8-24577-303-0	15543	XR8 22998	15717	MBPD4-18-861A	13859	B3C7-18-861A	13703
8-25105-107-0	12014	XR8 6938	15716	MZ55318-861	13859	B564-18-861	12054
8-25105-901-0	12014	KIA		MZ553-18-861A	13581	B601-18-861	12054
8-25133-185-0	12014	OK011-18-861	13703	LAND ROVER		B61R-18-861	12113
8-25133-791-0	15703	OK01A-18-861A	13797	AMR 6244	13923	B61R-18-861A	12113
8-25162-600-0	12014	OK04G-18-861	13703	ERR 1834	13927	B61R-18-861A9U	12113
8-25162-693-0	12014	OK08A-18-861B	13404	ERR 6729	13946	B61R-18-861B	12038
8-25162-753-0	12014	OK08B-18-861B	13404	MHK 000060	16432	B6A7-18-861	12054
8-25164-983-0	13444	OK2A5-18-861	15076	MHK 000210	13477	B6B1-18-861	12054
8-25165-313-0	15703	OK2AA-18-861	13404	MHK 000220	15109	B6B1-18-861-9U	12054
8-25166-816-0	12014	OK2AB-18-861	15076	MHK 000920	15175	B6B3-18-861	12054
8-25312-184-0	15703	OK2NA-18-861	15643	MHK 100930	15630	B6B3-18-861A	12054
8-25312-188-0	15703	OK2NB-18-861	15644	MHK 100940	15184	B6DC-18-861	13362
8-25312-200-0	15703	OK32A-18-861	15314	MHK 500840	13476	B6DC-18-861A	13362
8-25312-207-0	13444	OK32B-18-861	15536	MHK 500860	16671	B6DC-18-861A9U	13362
8-25325-266-0	13026	39210-22610	13461	MHK 500870	13116	BEH1-18-861	12054
8-94408-151-0	12014	39210-23500	13565	MHK 500880	15824	BP03-18-861	12038
8-97018-586-0	12014	39210-23700	15646	MHK 500910	13509	BP03-18-861A	12038
8-97018-587-0	15701	39210-23710	13391	MHK 500960	13498	BP03-18-861B	12038
8-97024-256-0	13030	39210-23750	13356	MHK 501050	13476	BP03-18-861B-9U	12038
8-97032-102-1	13030	39210-26620	15376	MHK 501140	15824	BP3A-18-861	13551
8-97062-292-0	15701	39210-2X010	15647	PRC 6325	13946	BP3A-18-861-9U	13551
8-97224-011-0	15703	39210-2X020	15648	PRC 7062	13946	BP3B-18-861	13857
8-97287-352-0	13193	39210-37120	13746	MASERATI		BP3B-18-86Z	13857
MB6DC-18-861	13362	39210-37125	13746	182837	17001	BP3B-18-86Z-9U	13857
MB6DC-18-861A	13362	39210-3712A	13746	MAZDA		BP3C-18-861	15322
MBP3C-18-861	13362	39210-3712A	13747	OK2AB-18-861	15076	BP3C-18-861-9U	15322
MBP3D-18-861	13859	39210-37160	13748	1F20-18-860	15716	BP3D-18-861	13859
MBPD4-18-861	13859	39210-37165	13749	1F80-18-860	15716	BP3D-18-861-9U	13859
MBPD4-18-861A	13859	39210-3716A	13748	8601-18-861	12054	BP4X-18-861	13551
JAGUAR		39210-37180	13749	AJ03-18-861C	15718	BP4X-18-861A	13551
1682AA	13789	39210-37510	15651	AJ03-18-861D	15718	BP4X-18-861A9U	13551
1682BA	13789	39210-37513	13463	AJ04-18-861B	15716	BP4Y-18-861A	13863
70412A	13789	39210-37520	15652	AJ05-18-861B	15718	BP4Y-18-861C	13863
70413A	13789	39210-37523	13358	AJ06-18-861D	13743	BP4Y-18-861C9U	13863
AGU 1108	11051	39210-37525	15653	AJ07-18-861	15718	BP6F-18-861	13581
AGU 1870	13032	39210-37530	15654	AJ51-18-861	15314	BP6F-18-861B	13581
C2C 12588	15846	39210-37533	13446	AJ51-18-861-9U	15314	BP6F-18-861B-9U	13581
C2C 25956	15626	39210-37540	15655	AJ52-18-861	15257	BP6G-18-861	13866
C2C 29250	15846	39210-37543	13466	AJ52-18-861A	15257	BP6G-18-861C	13866
C2C 7359	15627	39210-38005	13753	AJ52-18-861A-9U	15257	BP6G-18-861C9U	13866
C2C 7360	15626	39210-38015	13751	AJ53-18-861A	13596	BPD3-18-861	15322
C2C22679	15373	39210-38025	13752	AJ53-18-861A-9U	13596	BPD3-18-861A	15322
C2N 3717	15627	39210-38035	13754	AJ55-18-861	15708	BPD3-18-891A9U	15322
C2P 8810	15375	39210-39010	15034	AJ55-18-861-9U	15708	BPD4-18-861	13859
C2S 38497	15936	39210-39015	15033	AJ57-18-861A	15430	BPD4-18-861A	13859
DAC 2549	12046	39210-39025	15562	AJ57-18-861B	15430	BPD4-18-861A9U	13859
DAC 6907	13957	39210-39027	13774	AJ58-18-861A	15431	BPE1-18-861	13306
DBC 10744	13313	39210-39030	15656	AJ58-18-861B	15431	BPE1-18-861A	13306
DBC 10862	13789	39210-39040	15050	AJ59-18-861B	15428	BPE1-18-861A9U	13306
DBC 11613	13789	39210-39500	15657	AJ59-18-861C	15428	BPE8-18-861	13551
ERC 6193	12046	39210-39550	15658	AJ60-18-861A	15429	BPE8-18-861A	13551
LHA 1682AA	13789	39210-39600	15659	AJ60-18-861B	15429	BPE8-18-861A-9U	13551
LHA 1682BA	13789	39210-39650	13751	AJ95-18-861	15314	BPS1-18-861	13857
LHE 1682AA	13789	39210-39800	15661	AJ95-18-861-9U	15314	BPS1-18-862B	13857
LHE 1682BA	13789	39210-39820	15659	AJD1-18-861	15718	E563-18-861	12054
LJA 1680AE	15633	39210-3C100	15337	AJD6-18-861	15708	E564-18-861	12054
LJA 1682AE	15048	39210-3C400	15346	AJD6-18-8619U	15708	E565-18-861	12054
LNA 1682AC	13900	MB6DC-18-861	13362	AJF6-18-861A	15252	E663-18-861	12054
LNA 1682BA	15074	MB6DC-18-861A	13362	AM15-18-861	12054	EFT1-18-861	15718
LNE 1682BB	15626	MBP03-18-861B	12038	AM30-18-861	12054	F201-18-861	12054
LNE 1682BC	15626	MBP3C-18-861	15322	AM30-18-8619U	12054	F201-18-861A	12054
LNE 1684BA	15627	MBP3D-18-861	13859	B303-18-861B	12054	F201-18-861A9U	12054
LNE 1684BB	15627	MBP3D-18-861A	13859			F287-18-861	12061

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MAZDA (cont'd)		MAZDA (cont'd)		MAZDA (cont'd)		MAZDA (cont'd)	
F8G8-18-861	12061	GY06-18-861A	13970	KL47-18-861B	13574	L393-18-8G1A	15374
F8G8-18-861-9U	12061	GY06-18-861A9U	13970	KL55-18-861	15709	L394-18-861A	15386
FE05-18-861	12054	JE08-18-861B	13549	KL55-18-8619U	15709	L395-18-8G1	15463
FE86-18-861	12203	JE15-18-861	13364	KL56-18-861	15709	L396-18-861A	15555
FE86-18-861A	12203	JE15-18-861A	13364	KL57-18-861	15709	L397-18-861A	15772
FE86-18-861B	12203	JE15-18-861A03	13364	KL58-18-861	15709	L3A1-18-861A	13770
FE86-18-861B9U	12203	JE26-18-861A	13366	KL61-18-861	13287	L3A1-18-861A9U	13770
FEH1-18-861	12054	JE26-18-861B	13366	KL61-18-861A	13287	L3H5-18-861	15717
FEH1-18-861-9U	12054	JE26-18-861B9U	13366	KL61-18-861A9U	13287	L3K2-18-861	15774
FP49-18-861	13970	JE46-18-861	13756	KL62-18-861	13879	L3K2-18-861B	15774
FP49-18-861-9U	13970	JE46-18-861A	13756	KL62-18-861A	13879	L3K2-18-861B9U	15776
FP50-18-861	13868	JE46-18-861Z	13756	KL62-18-861A9U	13879	L3M6-18-8G1D	15782
FP50-18-861A	13868	JE46-18-862	13756	KLA6-18-861	15708	L3M7-18-861B9U	15783
FP50-18-861A-9U	13868	JE46-18-8629U	13756	KLA6-18-8619U	15708	LF63-18-8G1B	15918
FS1G-18-861	15262	JE48-18-861	13289	KLA7-18-861	15708	LF63-18-8G1B9U	15918
FS1G-18-861A	15262	JE48-18-861A	13289	KL67-18-8619U	15708	LF66-18-861A	13769
FS1H-18-861	15263	JE48-18-861A9U	13289	KLC4-18-861A	13306	LF66-18-861B	13769
FS1H-18-861A	15263	JE49-18-861	15708	KLC7-18-861	13284	LF66-18-861B9U	13769
FS1J-18-861	15278	JE49-18-861A	15708	KLC7-18-861A	13284	LF67-18-861A	15916
FS1J-18-861A	15278	JE50-18-861	15708	KLC7-18-861B	13284	LF68-18-861B	15922
FS1K-18-861	15265	JE50-18-861A	15708	KLC7-18-861B9U	13284	LF68-18-861B9U	15922
FS1K-18-861A	15265	JE50-18-861B9U	15708	KLC8-18-861	15314	LF69-18-861A	15914
FS2V-18-861A	13287	JE53-18-861	15708	KLC8-18-861A	15314	LF69-18-861B	15914
FS2V-18-861B	13287	JE53-18-8619U	15708	KLC8-18-861A9U	15314	LF69-18-861C	15914
FS2V-18-861B9U	13287	JE96-18-861	13595	KLD4-18-861	13306	LF69-18-861D	15914
FS7N-18-861	13870	JE96-18-861A	13595	KLD4-18-861A	13306	LF69-18-861E	15914
FS7N-18-8619U	13870	JE96-18-861A9U	13595	KLD4-18-861A9U	13306	LF69-18-861F	15914
FSAX-18-861	13868	JE97-18-861	13596	KLD8-18-861	13284	LF69-18-861G	15914
FSC1-18-861	13289	JE97-18-861A	13596	KLD8-18-8619U	13284	LF69-18-861H	15914
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FSC1-18-861B	13289	JE99-18-862	13962	KLD8-18-8619U	13284	LF69-18-861J	15914
FSC1-18-861B9U	13289	JE99-18-8629U	13962	KLD8-18-8619U	13284	LF69-18-861K	15914
FSC5-18-861	13547	K802-18-861	15708	KLD8-18-8619U	13284	LF69-18-861L	15914
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FSC5-18-861A9U	13547	K802-18-861B	15708	KLD8-18-8619U	13284	LF69-18-861N	15914
FSC6-18-861	13287	K802-18-861C	15708	KLD8-18-8619U	13284	LF69-18-861O	15914
FSC6-18-861A	13287	K805-18-861A	15322	KLD8-18-8619U	13284	LF69-18-861P	15914
FSC6-18-861A9U	13287	K805-18-861A9U	15322	KLD8-18-8619U	13284	LF69-18-861Q	15914
FSD7-18-861A	13971	K806-18-861A	13970	KLD8-18-8619U	13284	LF69-18-861R	15914
FSD9-18-861	13964	K806-18-861A9U	13970	KLD8-18-8619U	13284	LF69-18-861S	15914
FSD9-18-861A	13964	KF33-18-861A	13581	KLD8-18-8619U	13284	LF69-18-861T	15914
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G601-18-861	12035	KJ02-18-861A	13576	KLD8-18-8619U	13284	LF69-18-861X	15914
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G607-18-861	12019	KJ02-18-861C	13576	KLD8-18-8619U	13284	LF69-18-861Z	15914
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G609-18-861	12043	KJ03-18-861A	13574	KLD8-18-8619U	13284	LF69-18-861AC	15914
G609-18-8619U	12043	KJ03-18-861B	13574	KLD8-18-8619U	13284	LF69-18-861AD	15914
G622-18-861	12035	KJ03-18-861B9U	13574	KLD8-18-8619U	13284	LF69-18-861AE	15914
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GY02-18-861B	15267	KJ04-18-861B9U	13581	KLD8-18-8619U	13284	LF69-18-861AI	15914
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				KLD8-18-8619U	13284	LF69-18-861BJ	15914
				KLD8-18-8619U	13284	LF69-18-861BK	15914
				KLD8-18-8619U	13284	LF69-18-861BL	15914
				KLD8-18-8619U	13284	LF69-18-861BM	15914
				KLD8-18-8619U	13284	LF69-18-861BN	15914
				KLD8-18-8619U	13284	LF69-18-861BO	15914
				KLD8-18-8619U	13284	LF69-18-861BP	15914
				KLD8-18-8619U	13284	LF69-18-861BQ	15914
				KLD8-18-8619U	13284	LF69-18-861BR	15914
				KLD8-18-8619U	13284	LF69-18-861BS	15914
				KLD8-18-8619U	13284	LF69-18-861BT	15914
				KLD8-18-8619U	13284	LF69-18-861BU	15914
				KLD8-18-8619U	13284	LF69-18-861BV	15914
				KLD8-18-8619U	13284	LF69-18-861BW	15914



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MAZDA (cont'd)		MERCEDES-BENZ (cont'd)		MINI (cont'd)		MITSUBISHI (cont'd)	
ZM03-18-861A	13887	000 540 97 17	15005	11 78 7 560 957	17114	MD136310	13598
ZM0318861A9U	13887	000 640 96 17	15003	MITSUBISHI		MD136491	13218
ZZC3-18-861	15717	001 540 01 17	15058	1588A046	15187	MD136493	13598
ZZL0-18-861	15718	001 540 04 17	15083	1588A047	15188	MD140388	12053
ZZM0-18-860	15718	001 540 05 17	16272	1588A048	15189	MD142206	13494
ZZM0-18-861	13942	001 540 07 17	16179	1588A049	15190	MD142209	13494
ZZM1-18-860	15718	001 540 08 17	15088	1588A050	15021	MD143490	13494
ZZM2-18-861	15718	001 540 10 17	15090	1588A051	15924	MD147878	12023
ZZM2-18-861A	15718	001 540 11 17	15092	1588A064	15193	MD149813	12053
ZZM3-18-860	13131	001 540 12 17	15094	1588A081	15792	MD149888	12041
ZZM3-18-861	15716	001 540 13 17	13427	1588A098	15191	MD150608	12111
ZZM4-18-860	15718	001 540 28 17	15202	1588A112	15194	MD150609	12023
ZZM4-18-861	15718	001 540 37 17	16123	1588A147	15793	MD154365	13928
ZZM5-18-861	15718	001 540 38 17	16125	1588A148	15794	MD160578	12111
ZZM5-18-861A	15718	001 540 46 17	16183	1588A165	15795	MD164422	13807
ZZM7-18-860	15718	001 540 47 17	16268	1588A206	15613	MD164423	13808
ZZM7-18-861	15718	001 540 50 17	16167	1588A207	15582	MD165081	13805
ZZM8-18-861	15718	001 540 51 17	16274	1588A209	15580	MD165083	13812
ZZMD-18-861	15719	001 540 60 17	16276	1588A210	15581	MD174677	13928
ZZME-18-861	13131	001 540 70 17	16318	39210-21320	12053	MD175110	13473
ZZMF-18-861	13133	001 540 71 17	16320	39210-21340	12053	MD176183	13928
ZZMG-18-861	15717	001 540 73 17	16324	39210-24520	12053	MD177968	13805
ZZMJ-18-861	15718	001 540 74 17	16318	39210-24550	12053	MD177969	13801
ZZMK-18-861	15717	001 540 75 17	16322	39210-24560	12022	MD180388	12053
ZZMN-18-861	15717	001 540 76 17	16328	39210-24600	13844	MD180618	15338
ZZP0-18-861	15716	001 540 79 17	16330	39210-24610	13844	MD181398	13480
ZZP1-18-861	13117	001 540 80 17	16348	56028994AB	13869	MD182691	13457
ZZP2-18-861	15718	001 540 85 17	16353	56028998AB	13937	MD182692	13468
ZZP3-18-861	15717	001 540 87 17	16359	56029049AA	15510	MD182792	13218
ZZR1-18-861	15664	001 540 92 17	16420	56029050AA	15511	MD182793	13218
ZZTT-18-861	15718	001 540 95 17	16438	M04606037	15704	MD183145	13460
MERCEDES-BENZ		002 540 01 17	16473	M04671052	13480	MD183399	13832
000 540 24 17	13429	002 540 06 17	16475	M04671066	15704	MD184939	13417
000 540 26 17	13429	002 540 08 17	16456	M05269711	13407	MD185334	13460
000 540 27 17	13427	002 540 16 17	16481	M05269744	13399	MD185335	13460
000 540 29 17	13326	002 540 18 17	17161	MD011225	12053	MD186392	13830
000 540 38 17	13314	002 540 56 17	16753	MD073175	12053	MD186990	13812
000 540 41 17	13326	002 540 57 17	16751	MD073461	12053	MD186991	13801
000 540 45 17	13326	003 542 08 18	15720	MD073546	12053	MD186992	13809
000 540 48 17	13318	003 542 70 18	17016	MD076706	12053	MD188208	13598
000 540 49 17	13433	003 542 71 18	17019	MD077621	12053	MD188408	13218
000 540 50 17	13431	003 542 72 18	17020	MD078791	12053	MD191064	13928
000 540 51 17	13429	004 542 07 18	16749	MD088116	12053	MD192071	13460
000 540 52 17	13318	004 542 08 18	16747	MD088616	12053	MD192072	13460
000 540 55 17	13427	004 542 69 18	17004	MD089922	12053	MD192091	15072
000 540 56 17	13427	005 542 24 17	11027	MD107793	12053	MD194705	15347
000 540 59 17	13597	006 542 21 17	11027	MD108934	12053	MD198529	13383
000 540 60 17	16276	006 542 90 17	13915	MD110487	12053	MD198535	13890
000 540 62 17	13893	006 542 96 17	13915	MD110492	12053	MD300080	13460
000 540 65 17	13515	007 542 31 17	13925	MD117240	12053	MD302068	15348
000 540 71 17	13580	007 542 32 17	13926	MD117242	12053	MD305144	13801
000 540 72 17	13582	007 542 52 17	13930	MD117280	12053	MD305145	13818
000 540 73 17	13599	007 542 94 17	13943	MD119210	12053	MD305146	13425
000 540 74 17	13638	009 542 05 17	13146	MD119609	12053	MD305147	13816
000 540 75 17	13640	009 542 06 17	13160	MD121306	12053	MD305148	13815
000 540 76 17	13642	009 542 45 17	13943	MD127062	12053	MD305149	13815
000 540 81 17	13782	009 542 87 17	13156	MD128262	12053	MD306893	13809
000 540 82 17	13784	009 542 90 17	13144	MD129183	12053	MD306894	13933
000 540 83 17	13788	009 542 91 17	13146	MD131146	15538	MD307258	13801
000 540 85 17	13798	009 542 92 17	13148	MD131229	15075	MD311230	13598
000 540 86 17	13790	009 542 93 17	13146	MD131446	12053	MD312083	13822
000 540 89 17	13860	009 542 94 17	13152	MD131447	12053	MD312084	13412
000 540 90 17	13862	MINI		MD131448	12111	MD313304	13529
000 540 91 17	13864	11 78 0 872 674	13878	MD131540	12053	MD313819	13425
000 540 95 17	15083	11 78 7 548 961	15379	MD136308	13598	MD314060	15220
000 540 96 17	15003	11 78 7 549 860	17112	MD136309	13598	MD314061	15222
						MD314062	15223

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MITSUBISHI (cont'd)		MITSUBISHI (cont'd)		NISSAN / INFINITI (cont'd)		NISSAN / INFINITI (cont'd)	
MD314687	13891	MN153010	15589	22690-0S200	12046	22690-4M815	13630
MD315175	15583	MN158670	15600	22690-0W000	13224	22690-4S100	13420
MD319786	13801	MN158671	15462	22690-0W001	13224	22690-4S101	13420
MD319787	13805	MN158757	15514	22690-0Z800	15971	22690-4W000	15342
MD327610	13801	MN158758	15515	22690-0Z801	15971	22690-4W001	15342
MD327611	13801	MN158759	13412	22690-10Y00	13327	22690-4W004	15342
MD328152	13456	MN158773	15360	22690-10Y01	13327	22690-4W010	13531
MD329341	15452	MN158916	15583	22690-10Y10	13329	22690-4W012	13531
MD330259	13822	MN158917	15593	22690-12G02	15207	22690-4W020	15343
MD331050	13801	MN158918	15615	22690-12P00	13276	22690-4W021	15343
MD331887	13412	MN158919	15603	22690-12P01	13276	22690-55Y00	11051
MD332735	15454	MN158920	15601	22690-17B00	12046	22690-5E400	13482
MD333990	13809	MN158921	15602	22690-17Y00	13260	22690-5E401	13482
MD333993	13822	MN163400	15613	22690-17Y01	13260	22690-5E410	15757
MD333994	15456	MN163401	15582	22690-17Y10	13260	22690-5E411	15757
MD333995	13801	MN163465	15606	22690-17Y11	13260	22690-5M013	15955
MD333996	13801	MN163466	15608	22690-19P20	13791	22690-5M014	15955
MD334299	13890	MN163467	15591	22690-19P40	13791	22690-5S500	15466
MD335028	13891	MN163468	15605	22690-1B000	13591	22690-5S501	15466
MD335040	15068	MN163469	15607	22690-1B010	13591	22690-5S510	15467
MD335041	15069	MN163470	15590	22690-1E400	12046	22690-5S511	15467
MD335051	15072	MN163491	15515	22690-1M500	13791	22690-5W900	15665
MD335431	13801	MN163492	15583	22690-1M561	13791	22690-60U02	13311
MD335916	13417	MN183468	15613	22690-20R00	11051	22690-60U11	13617
MD336448	13801	MN183469	15582	22690-21P00	13791	22690-60U12	13673
MD336490	13801	MN191125	15588	22690-21P10	13385	22690-61A00	13021
MD337891	13801	MN985103	13822	22690-21P11	13385	22690-61A10	13021
MD338845	13417	MR135963	15581	22690-28F20	13791	22690-61A20	13021
MD338846	13801	MR420631	13801	22690-28F60	13276	22690-64U00	13311
MD339641	15583	MR507385	15514	22690-2A000	15369	22690-64U01	13657
MD342323	15515	MR507386	13801	22690-2B000	12046	22690-64U03	13635
MD342688	15349	MR507387	13412	22690-2B920	13350	22690-64U06	13657
MD342689	15350	MR507854	15360	22690-2Y921	13350	22690-64U08	13635
MD342693	15458	MR514342	13801	22690-30P00	13091	22690-64Y05	13039
MD342694	15615	MR560364	13795	22690-30P10	13091	22690-64Y10	13039
MD342775	13801	MR560365	13796	22690-30R00	11051	22690-64Y11	13039
MD343986	15351	MR560366	13796	22690-30R15	11051	22690-64Y12	13039
MD343987	15352	MR578081	15599	22690-32F00	13251	22690-67S00	13021
MD343988	15353	MR578113	15583	22690-3S500	13420	22690-67U01	13641
MD343989	15354	MR578114	15597	22690-3S501	13420	22690-67U10	13641
MD344002	13408	MR578532	15592	22690-40F00	12046	22690-67U12	13641
MD345230	13412	MR578634	15514	22690-40P10	13091	22690-69A01	13021
MD345770	13417	MR985102	15514	22690-40U00	13242	22690-69F02	13420
MD345771	13417	MR985103	13822	22690-40U05	13242	22690-6P100	13663
MD345772	13801	MR985164	15578	22690-40U06	13242	22690-6P101	13663
MD345773	13796	MR985165	15576	22690-40U10	13242	22690-6P107	13659
MD354850	15514	MR988902	15610	22690-40U15	13242	22690-6P600	15345
MD354851	13410	MR988903	13785	22690-40U16	13242	22690-6P601	13666
MD357265	13412	MR988905	13801	22690-40U21	13783	22690-6P602	13666
MD357266	13805	MW119210	12053	22690-46P00	13091	22690-6P603	13666
MD357284	15514	NISSAN / INFINITI		22690-46P01	13091	22690-70F00	13791
MD357285	15357	22690-01P00	13276	22690-46P10	13091	22690-70F10	13791
MD357286	15358	22690-01Y00	11051	22690-46P11	13091	22690-70F60	13791
MD360181	13412	22690-06F00	11051	22690-48P00	13091	22690-70F61	13791
MD360182	15615	22690-07G00	11051	22690-48P01	13091	22690-70F65	13791
MD365014	15600	22690-07G01	11051	22690-48P10	13091	22690-70F66	13791
MD365016	15583	22690-09P00	13276	22690-48P11	13091	22690-72F01	13420
MD366934	15359	22690-09P01	13276	22690-4E810	12046	22690-72F03	13420
MD366935	13804	22690-0B000	13972	22690-4E811	12046	22690-75P00	13418
MD366936	13796	22690-0B710	13416	22690-4J901	15340	22690-75P01	13418
MD369190	15462	22690-0B711	13416	22690-4J903	15340	22690-75P10	13418
MD369192	15460	22690-0B712	13416	22690-4L000	13505	22690-76J00	13311
MD560366	15614	22690-0M200	13420	22690-4L001	13760	22690-78J00	13848
MN119979	15609	22690-0M210	13420	22690-4L002	13505	22690-78J60	13848
MN122267	15611	22690-0M211	13420	22690-4M200	13262	22690-7B000	15819
MN135962	15580	22690-0M220	13420	22690-4M201	13262	22690-7B520	15881
MN135963	15581			22690-4M805	13630	22690-7B521	13311



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NISSAN / INFINITI (cont'd)		NISSAN / INFINITI (cont'd)		NISSAN / INFINITI (cont'd)		NISSAN / INFINITI (cont'd)	
22690-7J100	13652	22693-7Y020	17264	226A0-40U62	13783	226A0-7B503	15769
22690-7J110	13652	22693-8U300	17179	226A0-4J901	13675	226A0-7B504	15769
22690-7J111	13652	22693-CD700	15667	226A0-4J903	13675	226A0-7J100	13653
22690-81F02	15757	22693-EA000	17287	226A0-4L710	13374	226A0-7J101	13653
22690-81F12	15757	22693-ET000	15380	226A0-4L711	13374	226A0-7J400	15437
22690-85E10	13388	22693-JA00A	15381	226A0-4L713	13374	226A0-7J401	15437
22690-88G01	13252	22693-JA00B	15382	226A0-4M200	13273	226A0-7J402	15437
22690-8J001	15666	22693-ZE00A	15368	226A0-4M201	13273	226A0-7S001	16596
22690-8J010	16596	226A0-OL700	13273	226A0-4M210	15769	226A0-81F01	15757
22690-8U000	15365	226A0-OL701	13273	226A0-4M221	15769	226A0-81F02	15757
22690-8U300	16511	226A0-OL703	13273	226A0-4M811	15963	226A0-81F04	15757
22690-94Y00	13311	226A0-OL710	13278	226A0-4M812	15963	226A0-81F11	15757
22690-94Y01	13311	226A0-OL711	13278	226A0-4S000	15873	226A0-81F12	13271
22690-94Y10	13311	226A0-OL712	13278	226A0-4S001	15873	226A0-8J010	15518
22690-98E00	13387	226A0-OL713	13278	226A0-4S010	15873	226A0-8J100	15937
22690-9E800	15951	226A0-OW000	13226	226A0-4S011	15873	226A0-8U300	16513
22690-9E801	15951	226A0-OW001	13226	226A0-4S100	15961	226A0-9E800	15949
22690-9S200	15820	226A0-OW002	13226	226A0-4S101	15961	226A0-9E801	15949
22690-AL600	15524	226A0-OW010	13264	226A0-4S102	15961	226A0-9M600	15943
22690-AR202	13531	226A0-OW011	13264	226A0-4S103	15961	226A0-9M601	15943
22690-F2500	12046	226A0-OW012	13264	226A0-4S110	15959	226A0-AM601	15522
22690-F2510	12046	226A0-OZ800	15963	226A0-4S112	15959	226A0-AR210	15521
22690-F2520	12046	226A0-OZ801	15963	226A0-4S113	15959	226A0-EA000	15383
22690-F5100	12046	226A0-OZ802	15963	226A0-4W001	15377	226A0-EA200	13882
22690-F5300	12046	226A0-1B010	13591	226A0-4W005	15377	226A0-EA210	13897
22690-F6600	15209	226A0-1B011	13591	226A0-4W010	13650	226A0-EN21A	15384
22690-P5100	12046	226A0-1B012	13591	226A0-4W011	13650	226A0-ET000	15370
22690-P6500	12046	226A0-1B013	13591	226A0-4W012	13268	226A0-JA10C	15387
22690-P6510	12046	226A0-1B014	15989	226A0-4W013	13268	226A1-0W000	13257
22690-P6590	12046	226A0-1B015	15989	226A0-4W014	13268	226A1-0W001	13257
22690-V4060	11051	226A0-1M500	13791	226A0-4W015	13268	226A1-0W002	13257
22690-V5201	13276	226A0-1M560	13791	226A0-5E410	15757	226A1-0W004	13257
22690-V5202	13276	226A0-1M561	13791	226A0-5E411	15757	226A1-18Y01	13261
22691-0W000	13228	226A0-1S700	13725	226A0-5E412	15757	226A1-18Y02	13261
22691-0W001	13228	226A0-1S705	13727	226A0-5E413	15757	226A1-18Y03	13261
22691-0W003	13228	226A0-1S710	15987	226A0-5E460	15757	226A1-18Y05	13261
22691-2Y900	13504	226A0-1S715	15985	226A0-5E461	15757	226A1-4L711	13374
22691-2Y901	13504	226A0-2Y901	13969	226A0-5M010	15967	226A1-4L712	13348
22691-3Y100	15955	226A0-2Y902	13969	226A0-5M011	15967	226A1-4L715	13348
22691-3Y101	15955	226A0-2Y904	13969	226A0-5M012	15967	226A1-4M812	15963
22691-4L001	13562	226A0-3S501	15769	226A0-5S500	15466	226A1-4S100	15867
22691-4L003	13562	226A0-3S502	15769	226A0-5S501	15466	226A1-4S101	15867
22691-4L701	13948	226A0-3S503	15769	226A0-5W900	15526	226A1-4S102	15957
22691-4L703	13948	226A0-3S506	15873	226A0-5Y700	15225	226A1-4S103	15957
22691-4S100	15983	226A0-3S507	15873	226A0-5Y701	15225	226A1-4W001	15445
22691-4S101	15983	226A0-3S507	15873	226A0-67U01	15378	226A1-4W004	15445
22691-4S102	15983	226A0-3S508	15873	226A0-67U03	15385	226A1-4W010	13651
22691-4W000	15355	226A0-3S511	15871	226A0-6B701	15881	226A1-4W011	13651
22691-4W001	15343	226A0-3S512	15871	226A0-6B702	15881	226A1-5M011	15965
22691-4W002	15355	226A0-3S513	15871	226A0-6B703	15881	226A1-5M012	15965
22691-4W003	15363	226A0-3S560	15871	226A0-6M402	15436	226A1-5W900	15527
22691-5M013	15953	226A0-3S561	15871	226A0-6M406	15436	226A1-5Y700	15224
22691-5M014	15953	226A0-3S570	15769	226A0-6P101	13659	226A1-5Y701	15224
22691-5W900	15529	226A0-3S571	15769	226A0-6P103	13659	226A1-67U02	15446
22691-6P100	15362	226A0-3S575	15873	226A0-6P104	13659	226A1-6W500	15065
22691-6P101	15362	226A0-3S601	15975	226A0-6P107	13659	226A1-8U100	15949
22691-6P600	13658	226A0-3S602	15975	226A0-6P108	13659	226A1-8U700	15525
22691-6P602	13658	226A0-3S603	15975	226A0-6W500	15066	226A1-9M600	15389
22691-8J101	13968	226A0-3S606	15973	226A0-70F00	13791	226A1-9M601	15389
22691-8U000	15369	226A0-3S607	15973	226A0-70F60	13791	226A1-AM601	15523
22691-9M600	13968	226A0-3S608	15973	226A0-70F61	13791	226A1-AR210	15525
22691-9M601	13968	226A0-3S660	15975	226A0-78J00	13848	B2690-10Y10	13329
22691-9S200	15821	226A0-3S661	15975	226A0-78J61	13848	B2690-12P01	13276
22691-AR210	15665	226A0-3S665	15973	226A0-78J62	13848	B2690-30R00	11051
22693-6M400	17264	226A0-3S666	15973	226A0-7B000	15819	B26A0-67U01	15378
22693-7S000	17204	226A0-40U21	13783	226A0-7B001	15819		
22693-7Y000	17264	226A0-40U60	13783	226A0-7B013	15857		
		226A0-40U61	13783	226A0-7B014	15857		

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NTK		NTK (cont'd)		NTK (cont'd)		NTK (cont'd)	
21002.	12013	21529.	15432	22032.	13863	22501.	15719
21002.	12014	21530.	15503	22032.	15322	22502.	13551
21003.	13077	21531.	16175	22033.	13284	22503.	13131
21004.	15700	21531.	16200	22033.	13547	22503.	15718
21006.	13026	21531.	16447	22034.	13284	22504.	13857
21006.	15703	21531.	16624	22043.	12038	22505.	13596
21007.	12028	21532.	13361	22047.	13054	22505.	15257
21009.	13010	21533.	15285	22056.	15719	22505.	15315
21012.	15701	21535.	15433	22060.	15716	22506.	13595
21023.	15132	21536.	13450	22060.	15717	22506.	13772
21039.	13022	21537.	13111	22062.	13362	22506.	15043
21040.	13191	21538.	13055	22062.	13589	22507.	13578
21041.	15044	21539.	13193	22064.	13964	22510.	13885
21042.	13682	21539.	13474	22065.	13572	22513.	13887
21042.	15549	21541.	15701	22071.	13133	22513.	15266
21043.	13361	21543.	13027	22074.	13115	22514.	13868
21044.	15543	21544.	13444	22075.	13549	22514.	15267
21045.	15554	21545.	15543	22076.	13913	22516.	15769
21046.	15285	21545.	16746	22080.	15708	22516.	15959
21047.	13193	21546.	13779	22082.	12203	22519.	15316
21048.	15280	21546.	15133	22084.	12054	22521.	13591
21049.	15285	21546.	15152	22085.	12035	22521.	15989
21051.	13256	21546.	15284	22088.	13306	22523.	13970
21054.	13847	21546.	15564	22089.	15314	22524.	13117
21054.	15545	21547.	15290	22089.	15328	22524.	15664
21055.	13455	21547.	15559	22090.	15327	22528.	15708
21500.	12006	21548.	13694	22091.	13967	22531.	13886
21501.	13053	21549.	15282	22091.	13971	22532.	15314
21502.	13043	21550.	13450	22093.	13581	22533.	13870
21503.	13050	21551.	13423	22094.	13960	23000.	13428
21504.	13444	21555.	15000	22094.	15330	23001.	13417
21506.	15702	21555.	15283	22095.	13850	23001.	13480
21507.	15634	21556.	15494	22096.	15325	23001.	13796
21508.	13073	21556.	16532	22097.	15326	23001.	13805
21508.	15059	21556.	16717	22097.	15429	23001.	13891
21509.	13035	21556.	16726	22098.	13287	23002.	13149
21510.	13029	22000.	15314	22098.	13289	23004.	12919
21511.	13417	22001.	13838	22099.	13581	23005.	13190
21511.	15359	22002.	13287	22100.	15428	23006.	13436
21511.	15609	22003.	15645	22101.	15426	23007.	13153
21512.	13410	22004.	15716	22102.	15263	23007.	13317
21512.	13801	22004.	15717	22103.	15262	23008.	13413
21512.	15514	22004.	15718	22104.	15265	23009.	15510
21512.	15515	22006.	15001	22106.	13743	23014.	13138
21512.	15613	22006.	15716	22108.	15718	23014.	13280
21513.	13686	22006.	15717	22110.	15718	23016.	13138
21514.	13178	22007.	15802	22113.	15718	23018.	15123
21514.	13780	22010.	13115	22114.	15278	23019.	13315
21514.	13787	22011.	15716	22115.	15430	23020.	13407
21514.	15280	22011.	15717	22116.	15427	23021.	12007
21515.	13193	22012.	15717	22117.	15323	23022.	15497
21516.	13193	22013.	13942	22118.	15314	23023.	13275
21517.	13193	22013.	13953	22118.	15431	23023.	15704
21517.	13455	22013.	15716	22119.	13892	23024.	15512
21517.	15554	22013.	15718	22120.	13894	23025.	13399
21518.	13701	22014.	13913	22122.	15802	23026.	15498
21519.	13111	22016.	13131	22124.	15753	23032.	15707
21519.	13483	22016.	15717	22125.	15663	23035.	15706
21521.	16063	22020.	15708	22125.	15804	23036.	13275
21523.	13872	22021.	13416	22500.	13117	23036.	13317
21524.	13041	22027.	13972	22500.	13133	23041.	13100
21525.	15039	22028.	13287	22500.	15716	23041.	15705
21525.	15635	22028.	13289	22500.	15717	23044.	11051
21526.	15293	22028.	15314	22500.	15718	23044.	12046
21526.	15634	22028.	15708	22501.	13131	23047.	13436
21527.	13500	22032.	13362	22501.	15717	23048.	13272
21528.	13444	22032.	13579	22501.	15718	23048.	13280



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23055.	15046	23146.	15299	23538.	13709	24048.	15009
23088.	13138	23148.	15707	23544.	13937	24050.	13808
23093.	13317	23151.	13100	23549.	13801	24050.	13809
23094.	13155	23151.	13122	23549.	13816	24050.	13818
23097.	13315	23151.	15705	23549.	15349	24050.	13933
23098.	13280	23152.	13762	23549.	15350	24050.	15222
23098.	15218	23155.	13877	23549.	15351	24051.	13494
23099.	13138	23158.	15511	23550.	15589	24052.	13383
23099.	13272	23160.	13869	23550.	15600	24052.	13457
23099.	13280	23500.	12053	23550.	15615	24058.	13473
23100.	13413	23501.	12041	23551.	13529	24058.	13801
23101.	13413	23502.	12008	23551.	13795	24058.	13807
23102.	13399	23509.	13134	23551.	13801	24059.	13525
23103.	13122	23509.	13139	23551.	15069	24059.	15711
23104.	15047	23511.	13132	23551.	15357	24061.	13258
23105.	13149	23512.	13130	23551.	15578	24061.	15479
23106.	13413	23512.	13695	23551.	15615	24062.	13791
23108.	13151	23513.	13408	23552.	12909	24064.	13387
23110.	15465	23513.	13830	23556.	13687	24065.	15209
23114.	13871	23514.	13460	23556.	13871	24066.	13745
23115.	15045	23514.	15348	23557.	12053	24070.	13081
23116.	13149	23515.	13460	23558.	13425	24070.	15532
23117.	13122	23515.	13832	23558.	15581	24071.	13251
23118.	13123	23515.	15347	23559.	13812	24075.	13848
23118.	15704	23516.	13801	24002.	13385	24076.	13854
23119.	15704	23516.	15353	24003.	11051	24079.	13909
23120.	13117	23516.	15452	24003.	13791	24080.	13081
23120.	13127	23517.	13822	24004.	13388	24086.	12053
23120.	13133	23518.	13801	24005.	13252	24087.	13581
23120.	15716	23518.	13809	24006.	12054	24092.	13583
23120.	15717	23518.	15358	24007.	13021	24097.	13576
23121.	13399	23518.	15454	24010.	12061	24101.	15448
23122.	13122	23518.	15456	24010.	15271	24102.	12022
23123.	13315	23518.	15460	24011.	12061	24102.	12023
23124.	13316	23518.	15593	24012.	12019	24102.	12053
23125.	15301	23518.	15597	24012.	12043	24102.	12111
23126.	15705	23518.	15602	24014.	12035	24105.	12002
23127.	13320	23519.	13460	24015.	13366	24105.	12051
23128.	13272	23519.	15068	24017.	13249	24105.	12102
23129.	15439	23520.	15072	24018.	13242	24106.	12203
23130.	13710	23521.	13412	24021.	13791	24109.	13928
23131.	13123	23521.	13801	24022.	15709	24111.	12051
23131.	15705	23521.	13822	24023.	13362	24111.	13405
23132.	13610	23521.	15223	24024.	13783	24111.	13447
23132.	13687	23521.	15601	24025.	13791	24111.	15237
23132.	15308	23522.	13412	24026.	15027	24111.	15534
23132.	15506	23522.	15583	24027.	13289	24111.	15711
23133.	13138	23523.	13412	24029.	13756	24112.	13279
23133.	15297	23523.	13815	24029.	15675	24112.	13281
23134.	13674	23523.	15352	24031.	13468	24112.	13300
23135.	15504	23523.	15354	24033.	11027	24117.	12053
23137.	13664	23523.	15576	24033.	12050	24117.	13598
23137.	15306	23524.	13412	24033.	12055	24118.	13421
23137.	15505	23524.	15458	24033.	15396	24119.	15711
23138.	13664	23524.	15462	24035.	15245	24122.	12053
23138.	13670	23524.	15599	24037.	15319	24124.	13200
23139.	13670	23524.	15603	24038.	12050	24129.	15075
23139.	13687	23525.	13796	24039.	13327	24131.	15119
23140.	13687	23526.	13717	24041.	13494	24132.	15121
23141.	13671	23527.	13610	24042.	13075	24137.	13910
23141.	13687	23527.	13775	24042.	13322	24140.	13916
23141.	13714	23527.	15508	24042.	15712	24141.	12053
23142.	13672	23529.	13937	24043.	13416	24142.	13039
23142.	13718	23531.	13687	24043.	15953	24142.	13673
23143.	13672	23532.	15825	24044.	13448	24145.	13276
23144.	15300	23533.	13937	24047.	13355	24154.	13091
23145.	15705	23537.	15825	24047.	15619	24154.	13329

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24154.	13641	24289.	15710	24317.	17243	24503.	13836
24154.	15362	24290.	13532	24317.	17244	24503.	13903
24157.	13418	24291.	13532	24318.	17116	24503.	15242
24166.	13947	24292.	15405	24318.	17121	24504.	12112
24169.	13539	24293.	13720	24318.	17158	24505.	12108
24169.	15710	24293.	15616	24318.	17183	24505.	12200
24172.	13007	24294.	15275	24318.	17191	24505.	13898
24172.	13096	24295.	15276	24318.	17229	24506.	12109
24172.	13184	24296.	15040	24318.	17237	24507.	13471
24172.	13249	24296.	15295	24318.	17246	24508.	12108
24172.	13938	24297.	15365	24319.	17032	24509.	13471
24172.	13977	24298.	15369	24319.	17046	24510.	12201
24175.	12038	24298.	15666	24319.	17256	24510.	12205
24176.	12113	24298.	16596	24319.	17276	24511.	12201
24194.	12053	24299.	15665	24319.	17300	24512.	12202
24194.	13963	24300.	13025	24320.	15176	24513.	12202
24201.	13843	24300.	13246	24320.	15493	24514.	12105
24202.	13571	24301.	15393	24320.	17018	24515.	12106
24202.	13844	24302.	13965	24320.	17038	24516.	12100
24203.	13745	24302.	15401	24320.	17179	24517.	12053
24225.	13598	24302.	15906	24320.	17204	24518.	13471
24229.	13574	24302.	15910	24320.	17205	24518.	13896
24230.	13879	24304.	15646	24320.	17264	24519.	13420
24231.	13574	24305.	15070	24321.	17014	24519.	13482
24232.	13770	24306.	17034	24321.	17109	24519.	15819
24232.	15922	24306.	17036	24321.	17113	24520.	13445
24234.	13769	24306.	17134	24321.	17125	24521.	13224
24236.	15620	24307.	17035	24321.	17149	24521.	13262
24237.	15986	24307.	17135	24321.	17174	24521.	13276
24239.	15480	24308.	13922	24321.	17189	24521.	13311
24239.	15481	24309.	17016	24321.	17208	24521.	13420
24240.	15476	24310.	17262	24321.	17227	24521.	13652
24242.	13534	24311.	17260	24321.	17233	24521.	13657
24243.	15479	24312.	15667	24321.	17255	24521.	13663
24244.	13882	24312.	17044	24400.	15529	24521.	13948
24245.	15066	24312.	17070	24401.	15524	24521.	15820
24246.	15065	24312.	17136	24402.	15369	24521.	15881
24247.	13897	24312.	17137	24402.	15665	24523.	13702
24249.	15085	24312.	17188	24404.	15523	24524.	13255
24250.	15086	24313.	16065	24404.	15525	24525.	13260
24251.	15476	24313.	16066	24405.	15526	24525.	13505
24254.	15948	24314.	17101	24406.	15527	24525.	13562
24254.	15952	24314.	17138	24407.	15518	24526.	13228
24254.	15956	24314.	17223	24408.	15521	24526.	15821
24255.	13851	24314.	17234	24408.	15522	24526.	15983
24255.	15080	24314.	17258	24409.	13676	24527.	13630
24255.	15944	24315.	17019	24409.	13677	24527.	15466
24258.	15410	24315.	17215	24410.	15476	24527.	15955
24259.	13256	24315.	17216	24411.	15274	24527.	15971
24259.	13853	24316.	17053	24412.	15410	24528.	15363
24259.	15079	24316.	17095	24413.	13256	24529.	13841
24261.	13250	24316.	17097	24414.	15413	24530.	13703
24277.	13035	24316.	17160	24415.	13256	24530.	13797
24278.	13041	24316.	17177	24416.	13959	24533.	13598
24278.	13766	24316.	17201	24416.	15471	24534.	15541
24279.	15051	24316.	17221	24417.	15391	24536.	15711
24280.	15041	24316.	17254	24419.	13322	24537.	13200
24280.	15294	24316.	17275	24420.	13249	24537.	15711
24281.	15295	24316.	17278	24421.	15228	24538.	13401
24282.	13258	24317.	16400	24422.	13707	24539.	13447
24283.	13534	24317.	17085	24423.	15004	24540.	13093
24284.	13487	24317.	17090	24425.	15710	24541.	13093
24284.	13639	24317.	17105	24426.	15406	24542.	13249
24285.	13258	24317.	17140	24427.	13075	24543.	13257
24286.	13254	24317.	17157	24500.	12039	24544.	13226
24287.	15403	24317.	17193	24502.	12102	24544.	13264
24288.	13075	24317.	17235	24502.	12114	24544.	15959



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NTK (cont'd)		NTK (cont'd)		NTK (cont'd)		NTK (cont'd)	
24544.	15961	24566.	13919	24604.	13656	24643.	13651
24545.	13659	24566.	13992	24604.	13685	24644.	16511
24545.	15757	24566.	15061	24605.	13353	24644.	16513
24546.	13074	24566.	15087	24605.	13622	24644.	16596
24546.	13363	24566.	15246	24605.	13634	24645.	15943
24547.	13354	24566.	15618	24605.	13921	24646.	15937
24547.	13646	24567.	13338	24605.	15239	24647.	13704
24547.	13906	24567.	13902	24605.	15243	24647.	15409
24547.	13907	24568.	15211	24605.	15621	24648.	13969
24547.	15071	24569.	15535	24605.	15972	24649.	13911
24547.	15313	24570.	15073	24606.	15957	24649.	15272
24548.	13056	24571.	13619	24606.	15985	24650.	13785
24548.	13302	24572.	13348	24606.	15987	24650.	15606
24548.	13615	24572.	15436	24611.	12051	24650.	15608
24548.	13983	24573.	13650	24612.	12051	24650.	15610
24548.	15617	24573.	15224	24615.	13091	24651.	13355
24549.	13586	24573.	15389	24615.	13260	24651.	15030
24549.	13588	24574.	13374	24615.	13635	24652.	15290
24549.	15244	24574.	15377	24615.	13658	24652.	15310
24549.	15269	24575.	13904	24615.	13666	24653.	13852
24549.	15270	24575.	15208	24617.	13073	24653.	15561
24550.	13268	24576.	15638	24617.	15701	24653.	15703
24550.	15378	24577.	13859	24618.	13968	24655.	13075
24551.	13392	24578.	13469	24618.	15340	24656.	15217
24552.	13198	24579.	13353	24618.	15343	24657.	13733
24552.	13342	24579.	13556	24618.	15467	24657.	15926
24553.	13095	24579.	13908	24618.	15951	24658.	13540
24553.	13136	24579.	15215	24619.	13350	24659.	15537
24553.	13141	24579.	15273	24619.	13504	24660.	13493
24553.	13142	24579.	15289	24619.	13531	24660.	13512
24553.	13988	24581.	13768	24620.	15355	24660.	15394
24554.	13051	24581.	15247	24625.	13060	24661.	13996
24554.	13095	24582.	13377	24625.	13539	24661.	15117
24554.	13104	24583.	13404	24626.	13026	24661.	15118
24554.	13136	24583.	13797	24627.	13890	24661.	15624
24554.	13340	24584.	13979	24627.	15591	24661.	15974
24554.	15417	24585.	13256	24628.	13258	24661.	15988
24554.	15418	24585.	13377	24629.	13417	24661.	15996
24555.	13142	24585.	13637	24629.	13804	24662.	13735
24555.	13164	24585.	15398	24629.	13805	24662.	13997
24555.	13520	24586.	15478	24629.	15360	24662.	15093
24555.	13920	24587.	15478	24629.	15592	24662.	15095
24556.	13422	24588.	13356	24629.	15611	24662.	15489
24557.	13422	24588.	13461	24630.	13273	24662.	15490
24559.	13618	24589.	13458	24630.	13278	24662.	15571
24559.	13986	24591.	13394	24630.	15769	24662.	15572
24559.	13989	24592.	13367	24631.	13371	24662.	15622
24559.	15210	24593.	13394	24631.	15064	24662.	15623
24559.	15414	24594.	13354	24632.	15973	24662.	15960
24559.	15415	24594.	13355	24632.	15975	24662.	15966
24559.	15416	24594.	13544	24633.	13007	24662.	15984
24560.	13441	24594.	15089	24633.	13978	24662.	15998
24561.	13912	24594.	15106	24634.	15225	24663.	13737
24561.	13914	24594.	15423	24635.	15769	24663.	15013
24562.	13458	24594.	15958	24635.	15871	24663.	15108
24563.	13470	24594.	15990	24635.	15873	24663.	15964
24564.	13632	24594.	15992	24637.	15857	24663.	15968
24564.	13647	24594.	15994	24638.	15437	24664.	15473
24564.	15309	24595.	13104	24638.	15963	24664.	15501
24564.	15310	24598.	15814	24639.	15445	24665.	13680
24564.	15487	24599.	13459	24640.	15967	24666.	13678
24565.	13643	24600.	15076	24641.	13675	24666.	13706
24565.	13732	24601.	13030	24641.	15949	24667.	13557
24566.	13353	24602.	15207	24642.	13538	24667.	15015
24566.	13489	24603.	13176	24642.	15025	24668.	15400
24566.	13558	24603.	13639	24642.	15028	24668.	15482
24566.	13917	24604.	13071	24642.	15942	24669.	13613

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Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.
NTK (cont'd)		NTK (cont'd)		NTK (cont'd)		NTK (cont'd)	
24670.	13998	25139.	12040	25522.	13376	25569.	13559
24674.	15220	25146.	15036	25522.	13381	25569.	15668
24674.	15580	25147.	15037	25523.	13245	25570.	13431
24675.	13974	25151.	13752	25524.	13957	25573.	15633
24675.	15477	25151.	13753	25525.	13524	25574.	13936
24676.	13900	25151.	15656	25526.	13112	25576.	13957
24677.	15107	25152.	13751	25527.	13108	25577.	15540
24677.	15569	25153.	13754	25528.	13037	25578.	13218
24678.	13962	25154.	15562	25529.	13067	25579.	13517
24679.	15478	25155.	13753	25529.	13231	25580.	13721
24679.	15484	25155.	15033	25530.	13109	25580.	15054
24682.	13261	25155.	15034	25531.	13078	25581.	13564
24684.	13866	25156.	15314	25532.	13326	25581.	13661
24686.	15105	25157.	15536	25532.	13429	25581.	13723
24686.	15570	25158.	15659	25533.	13231	25581.	13817
24687.	15620	25158.	15661	25534.	13427	25581.	15097
24688.	15588	25159.	15651	25534.	13429	25582.	13662
24688.	15590	25159.	15654	25534.	13433	25582.	13723
24688.	15605	25159.	15655	25535.	13120	25583.	15083
24688.	15607	25160.	13358	25536.	15058	25584.	15716
24689.	13566	25160.	15652	25537.	13330	25584.	15717
24690.	15582	25162.	13773	25538.	15235	25585.	15099
24694.	15052	25162.	13774	25538.	15261	25587.	15109
24694.	15574	25163.	13981	25539.	13267	25587.	15669
24694.	15946	25164.	13884	25539.	13439	25588.	16159
24694.	15950	25166.	13747	25540.	13045	25589.	16287
24694.	15954	25167.	13747	25542.	13475	25590.	15637
24695.	15019	25168.	13749	25542.	13752	25591.	15035
24695.	15928	25170.	15655	25545.	13597	25591.	15056
24696.	15930	25172.	13748	25545.	13599	25592.	16100
25000.	13746	25173.	13955	25546.	13640	25592.	16101
25010.	15447	25174.	13944	25546.	13952	25592.	16146
25013.	13884	25175.	15657	25546.	15088	25592.	16174
25016.	13946	25175.	15658	25547.	13309	25592.	16197
25017.	13927	25176.	15647	25548.	13290	25592.	16199
25018.	13789	25177.	15648	25549.	13740	25592.	16433
25031.	11032	25178.	15653	25549.	15026	25592.	16435
25031.	11051	25181.	13466	25550.	13736	25592.	16446
25034.	13019	25184.	15848	25550.	13842	25592.	16541
25034.	13194	25185.	13511	25551.	13550	25592.	16623
25034.	13313	25186.	16749	25552.	13552	25592.	16682
25034.	13396	25187.	15149	25553.	15160	25593.	16173
25034.	13957	25189.	15148	25554.	13661	25593.	16198
25035.	13101	25500.	11047	25554.	15255	25593.	16488
25036.	13508	25501.	11964	25555.	13373	25594.	15090
25038.	13144	25503.	11027	25556.	13515	25595.	13893
25038.	13915	25504.	13211	25558.	13584	25596.	15094
25040.	13957	25504.	13232	25559.	13038	25597.	16069
25041.	13231	25505.	13008	25560.	13453	25597.	16091
25044.	13923	25506.	13003	25560.	13522	25597.	16283
25045.	13761	25506.	13918	25561.	13523	25598.	16291
25045.	15447	25507.	13001	25562.	13052	25599.	15092
25046.	13068	25509.	13011	25563.	13784	25600.	16067
25053.	13314	25510.	13047	25564.	13798	25600.	16371
25059.	13301	25510.	13058	25564.	13860	25601.	13806
25063.	13957	25511.	13119	25564.	13862	25602.	16121
25067.	15050	25512.	13049	25564.	15003	25602.	16243
25068.	13463	25512.	13059	25565.	13231	25602.	16261
25069.	13446	25514.	13926	25566.	13231	25602.	16307
25070.	15659	25516.	13012	25567.	13638	25602.	16582
25081.	13925	25516.	13048	25567.	13782	25602.	16663
25081.	13930	25516.	13924	25567.	15005	25603.	16292
25088.	11964	25517.	13148	25567.	15202	25604.	16109
25089.	15024	25519.	13146	25568.	13582	25604.	16213
25103.	13165	25520.	13152	25568.	13642	25604.	16255
25103.	13181	25520.	13160	25568.	13864	25604.	16257
25129.	13156	25521.	13370	25569.	13477	25604.	16305



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Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.
NTK (cont'd)		NTK (cont'd)		PEUGEOT (cont'd)		ROLLS ROYCE	
25604.	16373	25627.	15321	1628 J4.	13078	PB 20364.	13477
25604.	16704	25627.	15366	1628 L4.	13078	UE 73879.	13238
25604.	16727	25627.	15442	9151 797 880.	11032	UE 74940.	13330
25604.	16729	25627.	15682	9151 819 380.	13004	UR 22163.	11032
25605.	16296	25629.	13626	9153 571 880.	13004	UR 26474.	11032
25605.	16363	25630.	15057	9154 067 280.	13046	UT 0095.	13654
25605.	16418	25630.	15558	9603 682 780.	13078	UT 10094.	13645
25605.	16515	25631.	15627	PORSCHE		SAAB	
25605.	16517	25631.	15846	911 094 177 00.	11032	12 788 129.	15036
25605.	16550	25632.	13245	911 606 123 00.	11047	12 799 169.	15037
25605.	16559	25633.	13395	928 606 123 01.	11047	32005978.	15502
25605.	16587	25633.	13654	928 606 124 00.	13003	32005986.	15533
25605.	16589	25634.	13308	928 606 128 00.	13918	32005987.	15539
25605.	16609	25635.	13703	928 606 128 01.	13048	32005988.	15542
25606.	13391	25636.	13299	930 606 124 00.	13924	42 39 042.	13370
25606.	13565	25637.	13299	931 606 206 00.	11047	43 01 545.	13654
25607.	15626	25638.	13839	944 606 133 00.	11027	43 90 266.	13299
25608.	13951	25639.	13568	944 606 135 00.	13001	45 70 909.	16174
25609.	13949	25641.	16281	944 606 135 01.	13011	45 70 917.	16175
25610.	15643	25641.	16544	944 606 135 02.	13011	45 71 477.	16173
25610.	15644	25642.	13396	948 606 128 02.	17157	4570909.	16174
25611.	16324	25643.	13692	948 606 129 02.	17158	4570917.	16175
25612.	16320	25643.	13823	951 606 135 00.	13012	4571477.	16173
25613.	16183	25645.	16404	955 606 126 01.	17174	46 60 163.	13661
25613.	16328	25645.	16406	955 606 128 10.	17233	46 60 171.	15255
25613.	16753	25646.	13498	955 606 128 20.	17234	46 60 197.	15261
25614.	16322	25646.	13509	955 606 136 01.	16498	46 60 205.	15235
25616.	16179	25646.	15055	955 606 136 10.	16586	46 60 445.	13689
25616.	16268	25646.	15178	955 606 136 20.	16587	46 60 494.	13662
25616.	16318	25648.	13878	964 606 124 01.	13924	46 60 502.	13661
25616.	16348	25649.	16300	965 606 126 00.	13924	46 62 359.	13817
25616.	16353	25649.	16392	965 606 126 01.	13924	55 353 148.	16623
25616.	16359	25650.	13238	986 606 126 00.	13806	55 353 149.	16624
25616.	16475	25651.	15074	986 606 126 01.	13806	75 25 603.	13957
25617.	13875	25652.	15182	986 606 127 01.	15182	75 25 751.	13957
25617.	16123	25652.	15183	986 606 128 01.	15183	75 30 140.	11051
25617.	16125	25653.	16205	986 606 128 00.	16506	75 34 795.	11032
25617.	16167	25653.	16378	987 606 123 01.	17276	83 28 551.	11051
25617.	16272	25653.	16379	987 606 124 00.	16697	91 32 564.	13245
25617.	16274	25654.	16506	993 606 116 00.	13721	91 36 284.	13245
25617.	16276	25655.	15335	993 606 116 01.	13721	91 46 937.	13245
25617.	16330	25656.	16659	993 606 118 00.	13723	91 46 945.	13299
25617.	16438	25657.	16661	993 606 118 01.	13723	91 46 952.	15234
25617.	16473	25657.	16698	993 606 126 00.	13723	91 47 224.	13395
25617.	16751	25658.	15680	993 606 126 01.	13723	93 17 751.	11051
25618.	15138	25658.	15681	993 606 127 00.	13577	93 37 726.	11051
25619.	13767	25659.	16697	993 606 128 00.	13564	93 92 762.	13957
25620.	15048	25660.	16671	993 606 128 01.	13564	SATURN	
25621.	16247	25661.	16665	995 606 136 01.	16498	09182000.	16064
25621.	16259	25661.	16667	996 606 116 01.	16435	12565680.	13361
25621.	16302	25661.	16669	996 606 118 00.	15250	12568221.	13361
25621.	16442	25662.	13118	996 606 128 00.	17044	12568234.	13455
25621.	16444	25662.	15177	996 606 138 01.	16205	12569496.	15285
25621.	16584	25663.	13476	996 606 168 00.	16433	12576711.	15044
25622.	16334	29100.	11027	996 606 168 01.	16433	12578573.	13361
25622.	16412	29101.	12031	996 606 178 00.	16435	12578576.	13361
25622.	16416	29200.	12211	996 606 178 01.	16435	12581687.	15906
25622.	16422	29300.	15726	997 606 138 02.	16826	12581688.	15910
25622.	16452	29304.	15725	997 606 168 01.	17307	12581689.	13256
25622.	16498	29410.	15729	997 606 177 01.	16825	12581997.	15906
25622.	16554	29410.	15730	RENAULT		12586360.	15912
25622.	16557	29411.	15728	74 01 271 939.	15097	12601759.	13256
25622.	16586	29414.	15732	77 00 708 605.	11051	20122987.	13053
25622.	16591	29415.	15733	77 00 708 955.	12046	21020136.	13043
25623.	15175	PEUGEOT		77 00 729 963.	11032	21022009.	13050
25623.	15184	1628 58.	11032	T0 70 895 5.	12046	21022987.	13053
25624.	15630						

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Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.
SATURN (cont'd)		STANDARD (cont'd)		STANDARD (cont'd)		STANDARD (cont'd)	
21024460.	13361	SG44	13008	SG109	13231	SG172	13395
21025117.	13053	SG45	13957	SG109	13453	SG173	13416
24402859.	16378	SG46	13067	SG110	13431	SG174	13418
24403860.	16146	SG46	13936	SG111	13429	SG175	13420
24450850.	16066	SG47	13019	SG112	12046	SG176	13445
24577552.	13191	SG48	13052	SG114	13250	SG177	15717
25312198.	13055	SG49	12022	SG115	12039	SG177	15719
25315218.	15503	SG49	13963	SG116	13039	SG178	15001
STANDARD		SG50	12023	SG117	13091	SG178	15717
SG1.	12909	SG50	12053	SG118	15704	SG179	15716
SG2.	12909	SG50	12111	SG119	13275	SG180	13326
SG3.	12028	SG51	13078	SG120	13275	SG180	13515
SG4.	12006	SG52	13046	SG121	15704	SG181	13517
SG5.	12013	SG53	13924	SG122	13231	SG182	13529
SG5.	12014	SG54	13048	SG123	13231	SG183	13891
SG5.	15701	SG55	13957	SG124	13427	SG184	13548
SG7.	12919	SG56	13211	SG125	15062	SG185	13564
SG8.	11051	SG57	13181	SG126	13380	SG186	13577
SG8.	12050	SG58	11047	SG127	13299	SG187	15099
SG9.	11051	SG59	11027	SG129	15716	SG188	15718
SG9.	12046	SG62	13003	SG130	13021	SG188	15719
SG10	12028	SG63	13001	SG130	13791	SG189	13654
SG11	11032	SG64	13004	SG134	15709	SG190	13661
SG11	11051	SG65	13005	SG135	12019	SG191	13662
SG12	11027	SG66	13957	SG136	13366	SG192	13702
SG12	12009	SG67	13011	SG137	12043	SG193	13721
SG12	12014	SG68	13012	SG138	13317	SG194	13723
SG13	12050	SG69	13924	SG139	12061	SG196	13727
SG13	15396	SG70	13032	SG140	13385	SG197	15026
SG14	12051	SG71	13034	SG141	13388	SG197	15160
SG15	12053	SG72	13037	SG142	13289	SG198	15024
SG16	12053	SG73	13045	SG143	13468	SG199	13133
SG17	12031	SG74	13049	SG144	13117	SG199	15717
SG17	12203	SG75	13231	SG145	13133	SG200	13127
SG18	12051	SG76	11032	SG145	15717	SG201	13117
SG20	12008	SG77	13915	SG146	13756	SG201	13133
SG21	12009	SG78	13925	SG147	13131	SG202	12035
SG22	13190	SG79	13918	SG147	15675	SG203	15704
SG23	12909	SG80	13447	SG148	13133	SG204	15701
SG23	13942	SG80	15711	SG149	13115	SG205	13599
SG23	15716	SG81	12201	SG150	13115	SG206	13433
SG24	13913	SG83	11964	SG151	15709	SG207	13439
SG24	13942	SG84	13101	SG152	13284	SG208	15704
SG25	13275	SG84	13957	SG152	15314	SG209	13122
SG26	15718	SG85	13926	SG152	15709	SG209	13132
SG27	13127	SG86	13930	SG153	13480	SG209	13272
SG27	15716	SG87	12061	SG154	13155	SG209	15705
SG27	15718	SG87	13942	SG155	13362	SG210	13100
SG28	12038	SG88	11027	SG156	15708	SG210	13123
SG28	12054	SG89	11032	SG157	15708	SG210	13436
SG28	15271	SG89	15718	SG158	13317	SG210	15704
SG29	15716	SG90	13019	SG159	13364	SG211	13407
SG29	15717	SG90	13957	SG160	12061	SG212	13155
SG29	15718	SG91	13077	SG161	12203	SG213	13151
SG32	12054	SG92	13054	SG162	12061	SG214	13413
SG33	15707	SG93	11964	SG163	13218	SG215	13315
SG35	15706	SG94	13010	SG163	13598	SG215	13413
SG36	15725	SG95	15717	SG164	13387	SG216	13317
SG36	15726	SG97	12038	SG165	15716	SG217	15705
SG37	13211	SG99	13245	SG166	13290	SG218	15708
SG38	13211	SG100	13232	SG167	13301	SG219	15708
SG39	13181	SG101	13957	SG167	13725	SG220	13133
SG40	13913	SG102	13370	SG168	13309	SG221	13131
SG40	13953	SG103	13318	SG169	13311	SG221	15718
SG42	13957	SG104	13427	SG169	15881	SG222	13138
SG43	13047	SG105	15718	SG170	13890	SG223	13138
		SG107	15717	SG171	13383	SG224	13884



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Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.
STANDARD (cont'd)		STANDARD (cont'd)		STANDARD (cont'd)		STANDARD (cont'd)	
SG225	13115	SG286	13250	SG352	15269	SG431	13280
SG226	13115	SG287	12053	SG353	13353	SG431	13399
SG229	13100	SG288	13268	SG355	12201	SG432	15218
SG230	15704	SG289	13420	SG356	12108	SG433	15705
SG231	13317	SG290	13381	SG357	12109	SG434	13043
SG232	13317	SG291	11051	SG358	13353	SG435	13050
SG233	13791	SG291	13242	SG359	13422	SG437	13218
SG235	13436	SG291	13260	SG360	12202	SG438	13783
SG236	15703	SG291	13327	SG361	12201	SG438	13848
SG238	13423	SG291	13329	SG362	12108	SG443	13022
SG239	15703	SG291	15362	SG362	12201	SG444	13111
SG240	12108	SG292	13224	SG363	13200	SG445	13252
SG241	13077	SG292	13641	SG364	13198	SG446	13149
SG241	15700	SG294	15098	SG365	12102	SG447	15716
SG243	13552	SG295	13264	SG366	12102	SG448	15716
SG244	13580	SG296	13226	SG367	12109	SG448	15717
SG246	13789	SG298	13591	SG368	13355	SG450	15732
SG247	13789	SG300	15729	SG369	13198	SG451	13007
SG248	13927	SG300	15730	SG370	13200	SG452	15757
SG249	13946	SG301	13255	SG371	13200	SG453	13216
SG251	13522	SG302	13246	SG372	13104	SG453	13267
SG251	13523	SG302	13249	SG373	13104	SG454	13026
SG252	13568	SG303	13598	SG374	13095	SG455	13191
SG253	13396	SG304	12041	SG375	13104	SG458	13280
SG253	13550	SG305	15709	SG376	13104	SG459	15664
SG254	13482	SG307	12046	SG377	13095	SG462	13122
SG255	13582	SG308	13740	SG379	13081	SG463	13130
SG256	13842	SG309	15708	SG380	12105	SG466	13138
SG256	17014	SG310	13417	SG381	13519	SG466	13139
SG257	13638	SG311	13428	SG383	13508	SG466	13280
SG257	13642	SG311	13460	SG383	13957	SG467	13139
SG258	13280	SG312	13425	SG384	15701	SG468	13122
SG259	13399	SG314	13272	SG385	13184	SG470	13051
SG259	15704	SG315	13399	SG386	13938	SG471	13056
SG260	13058	SG316	13579	SG387	13938	SG472	13111
SG263	13401	SG317	13578	SG388	13030	SG473	13191
SG263	13405	SG319	15716	SG389	13525	SG475	13178
SG263	13447	SG320	13287	SG391	13353	SG477	13029
SG263	15711	SG320	13289	SG394	12102	SG478	13027
SG265	15717	SG321	13287	SG395	12201	SG479	13474
SG267	13127	SG321	13289	SG395	12205	SG480	13306
SG267	15717	SG322	13500	SG396	13816	SG481	15857
SG268	13134	SG324	13041	SG397	13480	SG482	15819
SG268	13138	SG326	13455	SG398	13460	SG484	15769
SG268	13272	SG329	13483	SG399	13801	SG484	15959
SG269	13138	SG331	13450	SG400	13812	SG485	13117
SG270	13153	SG332	13539	SG401	13815	SG487	13022
SG271	13276	SG334	13249	SG402	13815	SG488	13459
SG272	13474	SG335	13025	SG404	13539	SG489	13458
SG273	13474	SG336	13249	SG407	15322	SG490	13745
SG274	13444	SG336	15710	SG408	13970	SG494	15207
SG275	13450	SG337	13539	SG409	13801	SG496	13156
SG276	15702	SG338	13075	SG410	13809	SG497	13326
SG277	13444	SG341	13007	SG411	13073	SG498	13396
SG278	15703	SG341	13075	SG412	13473	SG499	13231
SG279	13474	SG341	13322	SG413	13801	SG500	13108
SG280	13027	SG341	15712	SG413	13812	SG502	13059
SG281	13091	SG342	13176	SG414	13198	SG503	13429
SG281	13311	SG344	13249	SG415	13096	SG504	13429
SG281	13635	SG345	13363	SG416	13035	SG505	13146
SG281	13657	SG346	13363	SG418	13053	SG506	13144
SG282	13276	SG347	13363	SG419	13055	SG507	13160
SG283	13313	SG348	13176	SG420	15322	SG508	13231
SG284	13228	SG349	13071	SG421	13571	SG509	15097
SG284	15983	SG351	13257	SG428	13320	SG510	13524
SG285	13242	SG352	13354	SG429	13695	SG511	13947
SG285	13260	SG352	13586	SG430	13315	SG512	13093

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Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.
STANDARD (cont'd)		STANDARD (cont'd)		STANDARD (cont'd)		STANDARD (cont'd)	
SG513	13584	SG575	13703	SG636	13745	SG705	13682
SG514	13330	SG576	13797	SG637	13581	SG706	15543
SG515	13165	SG577	13342	SG637	13859	SG708	15285
SG517	15314	SG578	13299	SG638	15076	SG709	15549
SG518	13960	SG579	13532	SG639	12053	SG710	13494
SG519	13674	SG580	13859	SG640	13404	SG711	13031
SG519	15045	SG581	13487	SG641	15541	SG711	13250
SG520	13148	SG582	13534	SG642	13249	SG712	13702
SG521	13152	SG583	13539	SG643	13350	SG713	13703
SG522	13373	SG584	13136	SG644	13937	SG713	13797
SG523	13120	SG585	13200	SG645	13413	SG714	15072
SG524	13308	SG586	13250	SG646	13457	SG715	13687
SG525	13176	SG587	13392	SG647	13284	SG716	15825
SG526	13258	SG587	15534	SG648	13540	SG717	13671
SG527	13176	SG588	15448	SG649	12113	SG718	13672
SG528	13071	SG589	13138	SG650	15247	SG719	13670
SG529	13500	SG590	13200	SG651	12114	SG720	15280
SG530	15634	SG591	13340	SG652	12100	SG721	13193
SG531	13701	SG592	13200	SG653	13422	SG722	15718
SG532	13178	SG593	13074	SG654	13355	SG723	15719
SG533	13193	SG594	13818	SG656	13302	SG724	13743
SG534	13686	SG595	12102	SG657	13447	SG725	15718
SG535	13178	SG596	13200	SG657	15711	SG726	15716
SG536	13178	SG597	13340	SG658	13249	SG727	13316
SG536	13780	SG598	13200	SG659	13664	SG728	15465
SG536	13787	SG599	13314	SG660	15675	SG729	13718
SG536	15280	SG600	13146	SG662	13245	SG730	13687
SG537	13193	SG601	15716	SG663	13714	SG731	13717
SG538	13791	SG602	15535	SG664	13354	SG732	13123
SG539	13421	SG603	15705	SG664	13355	SG733	13610
SG540	13200	SG604	13687	SG665	13520	SG734	13670
SG541	13051	SG605	12023	SG667	15432	SG735	13762
SG542	13056	SG606	13458	SG668	15825	SG736	13664
SG543	13200	SG607	13458	SG669	13342	SG738	13687
SG544	12109	SG608	13459	SG670	13692	SG739	13709
SG546	13903	SG609	13458	SG671	13902	SG740	15306
SG547	13056	SG610	13859	SG673	15217	SG741	13687
SG548	13281	SG611	13859	SG676	13176	SG742	13610
SG549	13547	SG612	13184	SG677	12105	SG743	13610
SG549	13583	SG612	13938	SG678	13539	SG744	15433
SG550	13287	SG613	13256	SG679	15271	SG745	13540
SG551	13549	SG613	13377	SG680	13957	SG746	15290
SG552	13830	SG614	13363	SG682	13937	SG747	15290
SG553	13460	SG615	13362	SG683	13540	SG748	13353
SG553	13832	SG615	15322	SG684	13470	SG748	15289
SG554	13844	SG616	13404	SG685	13448	SG749	15290
SG555	15247	SG617	13404	SG687	12002	SG750	15309
SG556	13198	SG618	15540	SG688	16305	SG751	13969
SG557	13928	SG619	13458	SG689	13539	SG752	13371
SG558	13809	SG620	15322	SG690	13968	SG753	15310
SG559	13081	SG621	15479	SG691	15955	SG754	13494
SG559	15532	SG622	13977	SG692	13805	SG755	15308
SG560	13902	SG623	13007	SG692	15338	SG756	13733
SG561	13136	SG623	13938	SG693	13916	SG757	13735
SG562	13273	SG624	13864	SG694	13460	SG758	12200
SG563	13278	SG625	15099	SG695	13460	SG760	13613
SG564	13261	SG626	13640	SG696	13470	SG761	13613
SG565	13512	SG627	13862	SG697	13736	SG762	13613
SG566	13680	SG628	13798	SG698	15347	SG763	13737
SG567	13041	SG629	13784	SG699	13843	SG763	15964
SG568	15710	SG630	13788	SG700	13311	SG764	13998
SG569	13131	SG631	15717	SG700	13673	SG765	15294
SG570	13250	SG632	13707	SG701	13790	SG766	15040
SG571	13551	SG632	15004	SG702	13597	SG766	15295
SG572	13791	SG633	15710	SG703	13425	SG767	16065
SG573	13791	SG634	15406	SG704	13455	SG768	15487
SG574	13420	SG635	15217	SG704	15554	SG769	12106



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Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.
STANDARD (cont'd)		STANDARD (cont'd)		STANDARD (cont'd)		STANDARD (cont'd)	
SG770	13928	SG829	13900	SG892	13322	SG960	15973
SG771	16379	SG830	13613	SG893	13801	SG961	15937
SG772	16378	SG831	13340	SG894	13851	SG962	16511
SG773	16063	SG832	15415	SG894	15413	SG964	17179
SG774	13912	SG833	13104	SG895	16213	SG965	15963
SG774	13914	SG835	13136	SG896	16255	SG966	15967
SG775	15242	SG837	13355	SG898	13300	SG967	13273
SG776	13720	SG838	13355	SG899	15109	SG967	15769
SG776	15616	SG839	13104	SG900	13256	SG968	15867
SG777	13733	SG840	15417	SG901	16109	SG969	15965
SG778	13613	SG841	15418	SG902	15284	SG970	13694
SG779	13540	SG842	15416	SG903	16292	SG971	15410
SG780	13104	SG843	13104	SG904	16291	SG972	13907
SG781	13095	SG844	13618	SG905	13804	SG973	13997
SG781	13136	SG844	15414	SG906	15403	SG974	13588
SG782	13989	SG845	13095	SG907	15407	SG974	15270
SG783	13988	SG847	15275	SG908	15405	SG976	13338
SG784	15210	SG848	15217	SG909	13680	SG978	13906
SG786	13104	SG849	13441	SG910	15394	SG979	13544
SG787	13355	SG851	13733	SG911	13677	SG980	13595
SG788	13986	SG852	13565	SG912	13075	SG982	15431
SG789	15211	SG853	13461	SG913	15408	SG984	13262
SG790	15212	SG854	15319	SG914	13258	SG985	15263
SG791	13104	SG855	13745	SG916	15401	SG986	15427
SG792	13615	SG856	13749	SG917	13639	SG987	15314
SG792	13983	SG857	13461	SG918	13685	SG988	15428
SG793	13566	SG858	13747	SG919	13256	SG989	13651
SG795	13353	SG859	13754	SG920	13680	SG990	13374
SG795	15215	SG860	13752	SG921	13706	SG991	15757
SG796	13095	SG860	13753	SG922	13377	SG992	15327
SG797	15208	SG861	13751	SG923	15400	SG993	15323
SG798	13095	SG862	13753	SG924	15398	SG994	15325
SG799	13104	SG863	15245	SG925	13256	SG995	13996
SG800	13164	SG864	13746	SG926	13965	SG996	13650
SG802	13354	SG865	13748	SG927	15393	SG997	13863
SG802	13355	SG865	13749	SG928	13978	SG998	15708
SG802	15089	SG866	13710	SG929	13074	SG999	13353
SG802	15617	SG867	15301	SG930	13678	SG1000	13646
SG803	13898	SG868	15439	SG931	13676	SG1001	13632
SG804	13355	SG869	15300	SG932	13704	SG1002	13917
SG805	13141	SG870	15299	SG932	15409	SG1003	15247
SG806	13095	SG871	13672	SG933	13974	SG1004	13558
SG807	13904	SG872	15297	SG934	13093	SG1005	13268
SG808	12102	SG873	13805	SG934	13938	SG1006	13970
SG808	13836	SG874	13417	SG935	15283	SG1007	13630
SG808	13903	SG875	13796	SG936	15285	SG1007	15466
SG809	15239	SG876	13410	SG938	13958	SG1008	13531
SG811	13737	SG876	13795	SG938	13979	SG1009	13921
SG812	13613	SG876	13801	SG939	13680	SG1010	15313
SG813	13104	SG876	15515	SG940	13256	SG1011	15243
SG814	13634	SG877	13417	SG941	13256	SG1012	13279
SG815	13619	SG878	13801	SG942	13060	SG1013	13489
SG816	13619	SG879	13801	SG943	13007	SG1014	15272
SG817	13619	SG880	15359	SG944	13637	SG1015	13562
SG818	15274	SG881	13408	SG945	13656	SG1016	13348
SG819	15276	SG884	15514	SG946	13675	SG1017	13505
SG820	15106	SG884	15515	SG947	13658	SG1018	13251
SG820	15423	SG886	16069	SG949	13653	SG1019	15244
SG821	13142	SG887	13796	SG950	13659	SG1020	13732
SG822	13556	SG888	13412	SG951	13666	SG1021	13441
SG822	15273	SG888	13822	SG952	15757	SG1022	13647
SG823	13441	SG888	15583	SG953	15949	SG1024	15769
SG824	13104	SG889	16121	SG954	15959	SG1025	15975
SG825	13622	SG889	16213	SG955	15821	SG1026	13489
SG826	13910	SG889	16249	SG957	16513	SG1027	13643
SG827	13178	SG890	16261	SG958	15961	SG1028	15071
SG828	13104	SG891	17053	SG959	15943	SG1029	13919

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Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.
STANDARD (cont'd)		STANDARD (cont'd)		STANDARD (cont'd)		STANDARD (cont'd)	
SG1030.	15873	SG1098.	16205	SG1173.	16067	SG1266.	15718
SG1031.	15873	SG1099.	15314	SG1174.	17138	SG1267.	13911
SG1032.	15820	SG1100.	15514	SG1175.	17090	SG1267.	15568
SG1033.	13850	SG1101.	13806	SG1176.	16247	SG1268.	13933
SG1034.	13964	SG1103.	15220	SG1177.	16283	SG1269.	13981
SG1035.	15265	SG1104.	15360	SG1178.	16363	SG1270.	15342
SG1036.	13886	SG1105.	13068	SG1179.	16243	SG1271.	15436
SG1037.	15266	SG1106.	13475	SG1180.	17085	SG1272.	15467
SG1038.	13887	SG1107.	15257	SG1181.	13690	SG1275.	15224
SG1039.	13596	SG1108.	13477	SG1182.	16259	SG1276.	15445
SG1040.	13870	SG1111.	13752	SG1183.	16442	SG1277.	15343
SG1041.	15429	SG1112.	13475	SG1184.	16452	SG1277.	15363
SG1042.	13866	SG1112.	13949	SG1185.	15330	SG1278.	15377
SG1043.	13287	SG1113.	15358	SG1186.	15501	SG1279.	15437
SG1044.	13854	SG1114.	15462	SG1187.	15537	SG1280.	15343
SG1045.	13879	SG1115.	15615	SG1188.	15926	SG1281.	15340
SG1046.	13551	SG1116.	15583	SG1190.	13992	SG1282.	15355
SG1047.	13859	SG1117.	15583	SG1191.	13972	SG1283.	17264
SG1048.	13551	SG1118.	15222	SG1192.	13504	SG1284.	15953
SG1049.	15315	SG1119.	13417	SG1193.	13755	SG1285.	15955
SG1050.	13576	SG1120.	15456	SG1194.	13791	SG1288.	15369
SG1051.	15430	SG1121.	13805	SG1195.	13493	SG1289.	15951
SG1052.	15328	SG1122.	15357	SG1196.	13093	SG1291.	15949
SG1054.	13574	SG1123.	13812	SG1197.	15217	SG1292.	15527
SG1056.	13589	SG1124.	13417	SG1199.	13469	SG1293.	15529
SG1057.	13581	SG1124.	13456	SG1200.	15312	SG1294.	15526
SG1057.	13838	SG1125.	13807	SG1201.	13952	SG1295.	15351
SG1058.	13857	SG1126.	13808	SG1202.	13951	SG1296.	15635
SG1059.	13962	SG1127.	15458	SG1203.	13639	SG1297.	15634
SG1060.	13581	SG1128.	13822	SG1204.	15003	SG1298.	13178
SG1061.	13596	SG1129.	15452	SG1204.	15005	SG1300.	15543
SG1062.	13885	SG1130.	15354	SG1205.	13860	SG1301.	15554
SG1063.	15314	SG1131.	15353	SG1208.	17125	SG1303.	13471
SG1064.	15871	SG1132.	15349	SG1209.	16307	SG1305.	13394
SG1065.	13663	SG1133.	15223	SG1210.	16287	SG1306.	15518
SG1066.	15282	SG1134.	15352	SG1211.	15426	SG1307.	16596
SG1068.	13652	SG1135.	15350	SG1212.	15237	SG1308.	15228
SG1070.	16173	SG1136.	13412	SG1213.	13723	SG1309.	15963
SG1071.	13817	SG1137.	13412	SG1218.	12102	SG1310.	15525
SG1072.	16174	SG1138.	13956	SG1222.	13745	SG1311.	16091
SG1073.	16175	SG1141.	16322	SG1223.	13839	SG1313.	16371
SG1074.	15054	SG1142.	16272	SG1224.	13841	SG1314.	13532
SG1074.	15063	SG1145.	16268	SG1225.	13801	SG1315.	15000
SG1075.	13376	SG1146.	16123	SG1226.	15348	SG1316.	15478
SG1076.	17035	SG1147.	16274	SG1229.	13659	SG1317.	13682
SG1077.	17034	SG1148.	16353	SG1230.	13923	SG1319.	13908
SG1078.	13892	SG1150.	16276	SG1232.	15209	SG1320.	15365
SG1079.	13287	SG1151.	16167	SG1233.	13254	SG1323.	13112
SG1080.	13889	SG1152.	13782	SG1235.	15881	SG1329.	13367
SG1082.	13868	SG1153.	15094	SG1236.	13893	SG1334.	15202
SG1083.	15814	SG1155.	15090	SG1239.	15083	SG1335.	13598
SG1084.	13971	SG1156.	16125	SG1239.	16179	SG1336.	15971
SG1084.	15262	SG1158.	16318	SG1240.	15088	SG1337.	15478
SG1085.	15314	SG1159.	16183	SG1241.	12040	SG1338.	15752
SG1086.	15391	SG1160.	15092	SG1242.	13948	SG1342.	15246
SG1087.	15476	SG1161.	15058	SG1243.	15287	SG1347.	15321
SG1088.	15705	SG1162.	13361	SG1244.	13258	SG1348.	13250
SG1089.	17018	SG1163.	13055	SG1245.	15385	SG1349.	13250
SG1090.	16200	SG1164.	13191	SG1246.	15446	SG1350.	15345
SG1091.	17070	SG1165.	15267	SG1248.	13353	SG1351.	15366
SG1091.	17137	SG1166.	13581	SG1249.	12014	SG1352.	13909
SG1092.	16198	SG1167.	13644	SG1250.	13617	SG1353.	15378
SG1093.	16199	SG1167.	15061	SG1253.	13413	SG1355.	13354
SG1094.	16197	SG1169.	15454	SG1256.	13591	SG1355.	13355
SG1095.	17036	SG1170.	16373	SG1260.	13401	SG1356.	15442
SG1096.	13559	SG1171.	13823	SG1263.	15665	SG1357.	13249
SG1097.	16433	SG1172.	16444	SG1265.	13896	SG1358.	15460



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Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.
STANDARD (cont'd)		STANDARD (cont'd)		STANDARD (cont'd)		STANDARD (cont'd)	
SG1359.	15583	SG1448.	15588	SG1555.	16559	SG1633.	15152
SG1360.	15080	SG1450.	15590	SG1556.	16582	SG1634.	13361
SG1360.	15471	SG1451.	15591	SG1557.	16584	SG1635.	15146
SG1361.	13680	SG1452.	15592	SG1558.	16609	SG1637.	15156
SG1362.	15473	SG1453.	15593	SG1559.	17038	SG1638.	15149
SG1363.	13534	SG1454.	15583	SG1560.	17095	SG1639.	15144
SG1364.	15476	SG1455.	15462	SG1561.	17097	SG1640.	15145
SG1366.	13872	SG1456.	15589	SG1562.	17101	SG1641.	15139
SG1367.	15479	SG1456.	15600	SG1563.	17105	SG1645.	13466
SG1368.	15480	SG1457.	15597	SG1564.	17109	SG1646.	15050
SG1369.	15481	SG1459.	15599	SG1565.	17116	SG1647.	15034
SG1370.	15482	SG1460.	15600	SG1566.	17140	SG1648.	13774
SG1372.	15484	SG1466.	15606	SG1567.	17149	SG1649.	13358
SG1374.	15486	SG1466.	15610	SG1568.	17160	SG1649.	15652
SG1374.	15960	SG1467.	15582	SG1569.	17183	SG1650.	13358
SG1377.	15489	SG1468.	13785	SG1570.	17264	SG1651.	15033
SG1377.	15968	SG1468.	15608	SG1571.	17191	SG1652.	13463
SG1378.	15490	SG1469.	15609	SG1572.	17193	SG1653.	15137
SG1378.	15966	SG1471.	15611	SG1573.	17204	SG1654.	15341
SG1379.	15493	SG1472.	15613	SG1574.	17205	SG1655.	15346
SG1380.	15494	SG1475.	15620	SG1575.	17208	SG1656.	15620
SG1381.	15497	SG1476.	15621	SG1576.	17221	SG1657.	15569
SG1382.	15498	SG1477.	15622	SG1577.	17223	SG1658.	15620
SG1388.	15505	SG1478.	15623	SG1578.	17227	SG1659.	16596
SG1389.	15506	SG1479.	15624	SG1579.	17229	SG1660.	17020
SG1390.	13687	SG1480.	15635	SG1580.	17244	SG1661.	15918
SG1391.	15508	SG1493.	15644	SG1581.	17246	SG1662.	13769
SG1392.	13687	SG1495.	15646	SG1582.	16726	SG1663.	15788
SG1395.	15512	SG1496.	15647	SG1583.	15974	SG1664.	13772
SG1396.	13687	SG1497.	15648	SG1584.	15293	SG1665.	15043
SG1399.	13412	SG1500.	15651	SG1585.	16746	SG1666.	15430
SG1401.	15369	SG1502.	15653	SG1587.	13937	SG1667.	15043
SG1403.	15522	SG1503.	15654	SG1588.	13717	SG1668.	15431
SG1404.	15523	SG1504.	15655	SG1591.	13937	SG1669.	15914
SG1405.	15524	SG1505.	15656	SG1592.	13142	SG1670.	15101
SG1406.	15564	SG1506.	15657	SG1593.	15663	SG1671.	15112
SG1407.	15284	SG1507.	15658	SG1593.	15804	SG1672.	15111
SG1408.	15536	SG1508.	15659	SG1594.	15290	SG1673.	15110
SG1409.	13847	SG1509.	13751	SG1596.	15944	SG1675.	15561
SG1412.	15543	SG1510.	15661	SG1597.	13471	SG1676.	13682
SG1414.	15545	SG1511.	15659	SG1602.	15645	SG1677.	15371
SG1415.	13193	SG1514.	15521	SG1604.	13869	SG1678.	15468
SG1416.	13779	SG1516.	15667	SG1605.	15802	SG1679.	13796
SG1416.	15564	SG1517.	15668	SG1606.	15753	SG1680.	15068
SG1417.	13852	SG1518.	15109	SG1609.	12106	SG1680.	15194
SG1418.	13035	SG1518.	15669	SG1610.	13394	SG1681.	15087
SG1419.	15561	SG1526.	16064	SG1612.	15148	SG1681.	15618
SG1420.	15558	SG1528.	16146	SG1613.	16717	SG1682.	15021
SG1421.	15290	SG1529.	16159	SG1614.	13193	SG1683.	15916
SG1421.	15559	SG1532.	16281	SG1615.	17201	SG1684.	15122
SG1422.	15290	SG1533.	16296	SG1616.	15716	SG1685.	15123
SG1422.	15640	SG1535.	16334	SG1618.	13538	SG1686.	15605
SG1423.	15561	SG1536.	17300	SG1619.	15129	SG1686.	15607
SG1424.	15562	SG1537.	16392	SG1621.	15132	SG1687.	15924
SG1427.	13455	SG1538.	16400	SG1622.	15147	SG1690.	15069
SG1431.	15569	SG1539.	16404	SG1623.	13871	SG1691.	13460
SG1432.	15570	SG1540.	16406	SG1623.	15046	SG1692.	13882
SG1433.	15571	SG1541.	16412	SG1624.	13871	SG1693.	13897
SG1434.	15572	SG1542.	16416	SG1624.	13937	SG1694.	15065
SG1436.	15576	SG1543.	16418	SG1625.	15133	SG1695.	15376
SG1437.	13822	SG1544.	16422	SG1626.	15131	SG1697.	15320
SG1438.	15578	SG1545.	15290	SG1627.	15130	SG1701.	15042
SG1439.	15514	SG1548.	16515	SG1628.	15128	SG1702.	13498
SG1440.	15580	SG1549.	16517	SG1629.	15140	SG1703.	13476
SG1441.	15581	SG1552.	16532	SG1630.	15142	SG1704.	15824
SG1443.	15583	SG1553.	16544	SG1631.	15200	SG1705.	13477
SG1445.	15515	SG1554.	16557	SG1632.	15136	SG1706.	15175

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Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.
STANDARD (cont'd)		SUBARU (cont'd)		SUZUKI (cont'd)		TOYOTA / LEXUS (cont'd)	
SG1707	16671	22690 AA330	13250	18213-65D30	15634	89465-06080	13355
SG1708	13509	22690 AA350	13702	18213-65D31	15634	89465-06090	13353
SG1709	15184	22690 AA380	15638	18213-65D32	15634	89465-06100	13355
SG1710	15035	22690 AA38A	15638	18213-65D40	15635	89465-06120	13355
SG1711	15057	22690 AA420	13469	18213-65D41	15635	89465-06130	15487
SG1715	15584	22690 AA43A	15814	18213-65D42	15635	89465-06140	13355
SG1716	13557	22690 AA45C	15942	18213-65D43	15635	89465-06150	15671
SG1716	15015	22690 AA490	13538	18213-65D50	15634	89465-06200	15672
SG1848	15477	22690 AA491	13538	18213-65D51	15634	89465-06250	15674
SG1849	15504	22690 AA500	15025	18213-65D60	15039	89465-07010	13983
SG1849	15510	22690 AA501	15025	18213-65D61	15039	89465-07040	13615
SG1850	15511	22690 AA520	15025	18213-65D60	15040	89465-07050	15089
SG1851	15825	22690 AA53B	15025	18213-65G10	15051	89465-07060	15487
SG1854	13937	22690 AA53B	15932	18213-66J00	15796	89465-07070	15100
SG1864	13998	22690 AA540	13469	18213-66J10	15798	89465-07080	15487
STERLING		22690 AA560	15028	18213-67D00	15295	89465-08010	13353
172 172500 19	12050	22690 AA56A	15028	18213-67D10	13041	89465-08030	15620
172 172500 20	12050	22690 AA630	13469	18213-67D30	15040	89465-08040	15569
172 172500 31	12050	22690 AA640	13469	18213-67D50	15041	89465-08050	15620
172 172500 32	11027	22690 AA68A	15030	18213-77E00	15287	89465-08051	15620
172 172500 35	12050	22690 AA69A	15031	18213-77E11	13035	89465-08070	15677
192 192200 53	12050	22690 AA70A	15032	18213-80400	12051	89465-08080	15683
192 192500 53	11027	22690 AA73A	15814	18213-82001	12050	89465-08090	15684
SUBARU		22690 AA740	13250	18213-83000	12050	89465-09020	13104
18213 61A10	12050	22690 AA810	15170	18213-85Z00	15227	89465-09030	13988
22641 AA000	15015	22690 AA81A	15172	18213-85Z00	15848	89465-09040	13104
22641 AA00A	13557	22690 KA000	11051	18213-85Z10	13511	89465-09050	13095
22641 AA011	17018	22690 KA020	12053	18213-85Z20	15799	89465-09070	13104
22641 AA012	17018	22690 KA060	12039	18213-86Z00	15492	89465-09080	13095
22641 AA01A	17018	22690 KA080	12039	18213-86Z01	15492	89465-09090	13164
22641 AA01B	17018	22690 KA081	12039	18213-86Z10	15233	89465-09100	13095
22641 AA01D	17018	22791 AA00A	17018	18213-86Z20	15236	89465-09110	13104
22641 AA03C	15926	46979 7000	11051	TOYOTA / LEXUS			
22641 AA042	15537	46979 7100	11051	89425-14010	12051	89465-09120	15208
22641 AA13B	15586	46979 7110	11051	89425-19025	12051	89465-09130	13095
22641 AA140	15501	SUZUKI		89425-19045	12051	89465-09140	13104
22641 AA150	15930	18212-86Z00	15491	89425-19046	12051	89465-09150	13095
22641 AA15A	15930	18212-86Z01	15491	89425-19145	12051	89465-09160	13095
22641 AA211	15019	18212-86Z02	15232	89425-19165	12051	89465-09170	13104
22641 AA25A	15013	18212-86Z10	15240	89425-29045	12051	89465-09180	13104
22641 AA260	15928	18213-50G00	13500	89425-29165	12051	89465-09190	13104
22641 AA280	15501	18213-50G01	13500	89465-01020	15237	89465-09200	13051
22641 AA32A	15011	18213-50G10	13041	89465-01090	15289	89465-09210	13104
22641 AA33A	15636	18213-50G11	13041	89465-01100	15290	89465-09220	13095
22641 AA360	15169	18213-54G00	13766	89465-01110	15290	89465-09230	13095
22641 AA36A	15171	18213-56B00	15701	89465-02010	12051	89465-09240	13095
22690 AA000	11051	18213-58B00	13073	89465-02030	13056	89465-09250	15210
22690 AA020	11051	18213-58B10	13073	89465-02110	15290	89465-09260	15211
22690 AA030	11051	18213-58B11	13073	89465-02170	15640	89465-09270	15212
22690 AA031	11051	18213-58B20	13073	89465-02171	15290	89465-09280	13986
22690 AA040	11051	18213-58B21	13073	89465-02190	15290	89465-09290	13566
22690 AA050	11051	18213-58B40	13035	89465-04270	15958	89465-09300	13340
22690 AA090	13250	18213-58B41	13035	89465-04280	13768	89465-09310	13104
22690 AA110	15448	18213-60B00	12014	89465-04290	13763	89465-09320	13104
22690 AA120	12053	18213-60G10	15059	89465-04300	15992	89465-09330	13989
22690 AA150	13250	18213-60G11	15059	89465-04320	15641	89465-09340	13618
22690 AA160	13255	18213-60G20	15059	89465-04330	15642	89465-09350	15414
22690 AA161	13255	18213-61A10	12050	89465-04340	15649	89465-09360	15415
22690 AA170	13250	18213-63A00	12050	89465-04350	15670	89465-09370	15416
22690 AA180	13250	18213-64B00	12014	89465-06010	13354	89465-09380	15417
22690 AA190	13250	18213-65B00	15040	89465-06020	13353	89465-09390	15418
22690 AA220	13445	18213-65D01	13500	89465-06030	13355	89465-0C140	13441
22690 AA220F	13445	18213-65D02	13500	89465-06040	13353	89465-0C150	13441
22690 AA270	13250	18213-65D10	15634	89465-06050	13720	89465-0C160	15990
22690 AA290	13702	18213-65D20	13041	89465-06060	13355	89465-0C170	15994
22690 AA310	13031	18213-65D21	13041	89465-06070	15487	89465-0C180	15685
						89465-0C190	15686
						89465-0E010	13679



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TOYOTA / LEXUS (cont'd)		TOYOTA / LEXUS (cont'd)		TOYOTA / LEXUS (cont'd)		TOYOTA / LEXUS (cont'd)	
89465-0E020	15756	89465-19455	13910	89465-29326	13401	89465-33370	15487
89465-0E030	15758	89465-19525	13836	89465-29335	12100	89465-33380	13355
89465-10030	12201	89465-19535	12201	89465-29336	12100	89465-33410	15619
89465-12030	12051	89465-19545	12102	89465-29365	13422	89465-33420	15761
89465-12100	13519	89465-19555	12205	89465-29395	12051	89465-34080	13441
89465-12110	13519	89465-19595	13902	89465-29405	12202	89465-34110	13441
89465-12120	12051	89465-19605	13904	89465-29415	12201	89465-34120	13441
89465-12140	12051	89465-19625	13903	89465-29495	13200	89465-34130	13441
89465-12160	12106	89465-19695	13902	89465-29505	15242	89465-34140	13441
89465-12170	12051	89465-19715	13095	89465-29525	13916	89465-34150	13441
89465-12211	13525	89465-20020	12051	89465-29535	12102	89465-35250	13200
89465-12260	12202	89465-20030	12051	89465-29545	13198	89465-35360	13104
89465-12310	12201	89465-20070	12051	89465-29675	13142	89465-35380	13104
89465-12320	12102	89465-20160	13896	89465-29745	12201	89465-35570	13355
89465-12380	12108	89465-20210	12051	89465-29755	12102	89465-35580	13355
89465-12390	13056	89465-20240	12102	89465-29775	12102	89465-35670	15103
89465-12510	13056	89465-20250	12200	89465-29785	12102	89465-35680	15104
89465-12710	15309	89465-20350	12102	89465-29795	13136	89465-35690	15106
89465-12740	15290	89465-20360	12102	89465-29825	13095	89465-39085	12051
89465-13030	15310	89465-20410	12102	89465-29895	13920	89465-39105	12002
89465-14060	12051	89465-20420	12108	89465-30170	12102	89465-39145	12051
89465-14090	12051	89465-20430	13355	89465-30180	13354	89465-39146	12051
89465-14120	15247	89465-20460	12108	89465-30190	13353	89465-39165	13421
89465-14140	15247	89465-20500	12109	89465-30360	13353	89465-39175	13281
89465-14200	13906	89465-20510	13353	89465-30410	15243	89465-39185	12051
89465-14220	13907	89465-20630	12102	89465-30430	15244	89465-39205	12051
89465-14230	13908	89465-20670	13619	89465-30440	15313	89465-39225	15711
89465-16050	13355	89465-20680	13622	89465-30450	15246	89465-39226	15711
89465-16060	13302	89465-20700	13619	89465-30470	13544	89465-39235	13401
89465-16110	12108	89465-20710	13634	89465-30480	15247	89465-39236	13401
89465-16120	13302	89465-20820	13619	89465-30490	13558	89465-39245	13392
89465-17030	12051	89465-20830	13619	89465-30630	13353	89465-39246	13392
89465-17080	12051	89465-20840	15239	89465-30710	15119	89465-39255	13447
89465-17090	13896	89465-20851	15972	89465-30720	15121	89465-39256	13447
89465-17120	13898	89465-21070	15584	89465-30730	15125	89465-39265	15711
89465-17180	13354	89465-22030	12051	89465-30740	15120	89465-39275	13447
89465-17200	13900	89465-22040	12051	89465-30840	15759	89465-39285	13405
89465-17201	13900	89465-22110	12051	89465-32010	12051	89465-39286	13405
89465-19025	12203	89465-24050	13470	89465-32030	12002	89465-39295	15711
89465-19026	12203	89465-24060	13912	89465-32050	12051	89465-39296	15711
89465-19045	12051	89465-24120	13914	89465-32080	12051	89465-39305	13279
89465-19055	12051	89465-24160	13917	89465-32090	12106	89465-39315	13300
89465-19132	12051	89465-24170	13919	89465-32110	13471	89465-39325	13281
89465-19135	12051	89465-24200	13921	89465-33010	12109	89465-39335	15711
89465-19136	12051	89465-24210	13911	89465-33020	12200	89465-39336	15711
89465-19145	13909	89465-24220	15127	89465-33030	13353	89465-39355	15711
89465-19155	12051	89465-28020	12051	89465-33050	12102	89465-39365	15711
89465-19166	13519	89465-28070	13200	89465-33060	12112	89465-39395	12051
89465-19185	15073	89465-28080	12201	89465-33080	13355	89465-39405	12114
89465-19205	15711	89465-28145	12051	89465-33090	12109	89465-39415	12112
89465-19206	15711	89465-29045	12051	89465-33100	12102	89465-39425	12102
89465-19225	12051	89465-29055	12051	89465-33120	13353	89465-39435	13198
89465-19245	15711	89465-29075	12051	89465-33130	13354	89465-39445	13198
89465-19255	12051	89465-29076	12051	89465-33180	13355	89465-39446	13198
89465-19256	12051	89465-29145	12051	89465-33210	13353	89465-39455	13198
89465-19265	12051	89465-29165	12051	89465-33220	15616	89465-39465	13200
89465-19275	12051	89465-29166	12051	89465-33230	13992	89465-39475	13342
89465-19295	13519	89465-29195	12051	89465-33250	13355	89465-39485	13200
89465-19315	12051	89465-29205	15711	89465-33260	15487	89465-39495	13200
89465-19316	12051	89465-29215	15711	89465-33310	13355	89465-39505	13200
89465-19325	15535	89465-29225	13401	89465-33320	15617	89465-39515	13448
89465-19345	13909	89465-29235	13401	89465-33321	15617	89465-39525	13200
89465-19355	12202	89465-29275	15711	89465-33330	15618	89465-39535	13200
89465-19366	13525	89465-29285	15711	89465-33331	15087	89465-39595	13200
89465-19395	12202	89465-29315	12051	89465-33340	13992	89465-39605	13104
89465-19405	12201	89465-29316	12051	89465-33350	13355	89465-39625	13198
89465-19435	12051	89465-29325	13447	89465-33360	15674	89465-39635	13142

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Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.	Mfg. Part No.	Our Part No.
TOYOTA / LEXUS (cont'd)		TOYOTA / LEXUS (cont'd)		TOYOTA / LEXUS (cont'd)		VW / AUDI (cont'd)	
89465-39645	13200	89465-53140	13646	89467-33050	13735	022 906 262AN	17071
89465-39655	13340	89465-53150	13647	89467-33060	13737	022 906 262AP	16831
89465-39665	13340	89465-53190	15061	89467-33080	15486	022 906 262AQ	16833
89465-39675	12102	89465-53200	13732	89467-33090	15764	022 906 262BB	17189
89465-39685	12102	89465-53210	15071	89467-33100	15489	022 906 262BE	17221
89465-39695	13903	89465-53230	15126	89467-33110	15490	022 906 262BF	17223
89465-39705	13142	89465-60020	13355	89467-33120	15622	022 906 262BG	16557
89465-39735	13104	89465-60110	15532	89467-33130	15765	022 906 262BH	16559
89465-39745	13200	89465-60150	13441	89467-33140	15691	022 906 262BM	16383
89465-39755	13051	89465-60200	13354	89467-34011	13998	022 906 262BQ	16385
89465-39775	13342	89465-60220	13355	89467-34020	13613	022 906 262BR	16895
89465-39785	13136	89465-60230	13355	89467-34021	13613	022 906 262BB	16862
89465-39825	13095	89465-60250	15423	89467-35010	13613	022 906 262CA	17082
89465-39835	13104	89465-60290	15111	89467-35011	13613	022 906 262CC	16829
89465-39855	13104	89465-60300	15112	89467-35020	13998	022 906 262CD	17084
89465-39865	13104	89465-60320	15688	89467-35021	13998	022 906 262CE	16837
89465-39875	13136	89465-60330	15689	89467-35030	13613	022 906 262CF	16839
89465-39885	13104	89465-69015	15711	89467-35040	13613	022 906 262CG	17086
89465-39895	13095	89465-69025	15711	89467-35050	13613	022 906 262CH	17088
89465-41010	13056	89465-69035	15534	89467-35060	13613	022 906 262K	16300
89465-41040	13056	89465-69065	13081	89467-35090	13998	022 906 262L	16302
89465-42050	15197	89465-69075	13081	89467-41010	15217	022 906 262P	17125
89465-42090	13586	89465-69085	13422	89467-41011	15217	022 906 262R	17121
89465-42100	13588	89465-69105	13136	89467-41020	15217	022 906 262S	16452
89465-42130	15620	89465-69115	13081	89467-41021	15217	022 906 265	17237
89465-42150	15195	89465-69125	13081	89467-41030	13540	022 906 265A	17235
89465-42160	15196	89465-69175	13104	89467-41040	13540	022 906 265B	16589
89465-42170	13355	89465-80002	12105	89467-42010	15217	022 906 265C	16591
89465-45010	13353	89465-80008	12105	89467-42020	13540	023 906 205H	13232
89465-47050	13354	89465-80010	13095	89467-42040	15623	023 906 262	16247
89465-47060	15215	89465-80011	13104	89467-42060	15198	023 906 265H	13232
89465-47070	15621	89465-80026	13904	89467-42090	15198	025 906 265	11964
89465-48060	15269	89465-80029	13142	89467-47010	15624	025 906 265B	13957
89465-48070	15270	89465-80034	13104	89467-48010	15217	030 906 262L	16422
89465-48170	15569	89465-80035	13095	89467-48011	15217	030 906 265	13936
89465-48180	15570	89465-80041	13355	89467-48020	13997	030 906 265AA	13181
89465-48190	15986	89465-80048	13355	89467-48030	13996	030 906 265AP	13548
89465-48200	15105	89465-91465	12051	89467-48050	15571	030 906 265BK	15024
89465-48210	15107	89467-02020	15690	89467-48060	15572	030 906 265BN	15024
89465-49065	13520	89467-04010	15998	89467-48070	15984	030 906 265F	13112
89465-49075	13338	89467-04020	15996	89467-48080	15108	030 906 265G	13211
89465-49105	13136	89467-04060	15996	89467-50010	15767	030 906 265K	13181
89465-49125	13051	89467-06010	15968	89467-50020	15768	030 906 265P	13181
89465-49135	13141	89467-06020	15964	89467-60010	13737	030 906 265R	13548
89465-50010	13470	89467-06030	15960	89467-60020	15110	034 906 265A	13019
89465-50020	13471	89467-06040	15966	89467-71020	15101	034 906 265B	13019
89465-50050	13471	89467-06050	15962	VW / AUDI			
89465-50060	13441	89467-06060	15691	021 906 262B	17014	034 906 265C	13019
89465-50070	13489	89467-07010	15093	021 906 262C	16121	034 906 265D	13019
89465-50100	13489	89467-07020	15095	021 906 265	13216	034 906 265E	13957
89465-50120	13441	89467-08010	15571	021 906 265A	13267	035 906 265A	11051
89465-50130	13632	89467-08020	13737	021 906 265AA	15160	035 906 265B	11051
89465-50140	15272	89467-08030	15692	021 906 265AD	13842	035 906 265C	11051
89465-50150	13441	89467-08040	13737	021 906 265AE	15160	035 133 533A	11051
89465-50160	15568	89467-08050	15692	021 906 265AF	13842	035 906 265A	11051
89465-50170	15762	89467-0C010	15988	021 906 265AG	13740	035 906 265B	11051
89465-52050	13354	89467-0E010	15934	021 906 265AH	13736	035 906 265C	11051
89465-52060	13556	89467-0E020	15763	021 906 265AK	13842	035 906 265D	13957
89465-52120	15273	89467-12010	15974	021 906 265AL	15026	037 906 265AB	13842
89465-52190	15274	89467-28010	15116	021 906 265AQ	15160	037 906 265B	13165
89465-52200	15275	89467-30010	15117	021 906 265AR	13267	037 906 265C	13181
89465-52280	15276	89467-30020	15118	021 906 265AS	13267	037 906 265D	13211
89465-52430	15687	89467-33010	13733	021 906 265AT	15024	037 906 265E	13211
89465-53090	15313	89467-33011	13733	021 906 265AU	13439	037 906 265F	13211
89465-53100	13647	89467-33020	13733	022 906 262AF	16611	037 906 265G	13211
89465-53110	13643	89467-33030	13540	022 906 262AG	16613	037 906 265H	13232
89465-53120	13644	89467-33040	13733	022 906 262AM	17068	037 906 265S	13584
						039 906 265	11964
						03C 906 262B	17177



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VW / AUDI (cont'd)		VW / AUDI (cont'd)		VW / AUDI (cont'd)		VOLVO (cont'd)			
03G 906 262A	17003	077 906 265AB	17191	07D 906 262B	16418	9135664	13373		
048 906 265	13508	077 906 265AC	17193	07D 906 262C	17140	9135793	13380		
051 906 265E	12040	077 906 265AD	16550	07D 906 262D	17138	9135794	13381		
058 906 265B	16307	077 906 265AE	16554	07L 906 262B	17318	9179101	15099		
058 906 265C	16305	077 906 265AF	16544	07L 906 262E	17320	9186934	16199		
058 906 265V	16305	077 906 265D	13842	07L 906 262F	17322	9202153	17034		
06A 906 262AE	17053	077 906 265E	13823	07L 906 262G	17324	9202309	15558		
06A 906 262AG	16249	077 906 265H	16281	07L 906 262H	17326	9202719	15097		
06A 906 262AH	16255	077 906 265J	16159	07L 906 262J	17328	9202721	15054		
06A 906 262AJ	16257	077 906 265K	16283	07L 906 262K	17330	9202928	17036		
06A 906 262AK	16261	077 906 265L	16091	07L 906 265F	16887	9202988	17137		
06A 906 262AL	16259	077 906 265R	16371	07L 906 265G	16889	9207999	13937		
06A 906 262AS	16392	077 906 265T	16404	07L 906 265H	16891	9458187	16198		
06A 906 262BA	16296	078 906 265	13396	07L 906 265J	16893	9458189	16197		
06A 906 262BB	16334	078 906 265A	13396	07Z 906 262	17403	9470011	16200		
06A 906 262BC	17085	078 906 265AA	16442	07Z 906 262A	17005	9470408	17036		
06A 906 262BD	17095	078 906 265B	13396	07Z 906 262D	17022	9470570	17035		
06A 906 262BE	17097	078 906 265C	13396	07Z 906 262E	17024	9470981	17036		
06A 906 262BG	16373	078 906 265D	13524	07Z 906 262F	17430	9470983	17038		
06A 906 262BH	17109	078 906 265F	13552	07Z 906 262G	17432	9497252	13626		
06A 906 262BK	17002	078 906 265G	13550	VOLVO				9497317	17038
06A 906 262BM	16495	078 906 265H	13690	1270535	15062	9497345	16197		
06A 906 262BQ	17163	078 906 265J	13692	1271576	13517	9497347	16199		
06A 906 262CB	16575	078 906 265L	13842	1271939	15097	9497468	15056		
06A 906 262CG	17032	078 906 265M	16287	1271940	15062	30617335	16291		
06A 906 262CK	16698	078 906 265N	16067	1271955	15098	30617336	16292		
06A 906 262CL	16700	078 906 265P	16069	1271986	15099	30622251	15055		
06A 906 262CM	16702	078 906 265T	16444	1274144	11032	30622252	13767		
06A 906 262CN	16704	079 906 262	17256	1274367	11032	30637519	17188		
06A 906 262DA	17046	079 906 262A	17296	1275610	15063	30637520	16100		
06A 906 262DE	17054	079 906 262B	17298	1275632	17036	30637521	16101		
06A 906 262F	16109	079 906 262E	17315	1276951	11032	30637837	16541		
06A 906 262G	16249	079 906 262F	17313	1346738	13957	30650089	15173		
06A 906 262N	16255	079 906 262G	16851	1346962	13957	30650090	15174		
06A 906 262P	16243	079 906 262H	16849	1378123	13034	30650109	16682		
06A 906 262Q	16121	079 906 262L	17334	3501753	13034	30651201	13528		
06A 906 262R	16257	079 906 262M	17336	3531075	13120	30651718	13516		
06A 906 265M	16213	079 906 265	16659	3531251	13119	30651722	13514		
06A 906 265N	16213	079 906 265A	16661	3531400	13957	30651723	15177		
06B 906 265D	17090	079 906 265D	16797	6842522	15097	30651724	15176		
06C 906 265	16363	079 906 265E	16919	6842619	15062	30677175	15178		
06C 906 265A	16363	079 906 265F	16958	6842910	13308	30681335	15800		
06C 906 265B	17113	07C 906 262	17101	8627202	15035	30713592	15181		
06C 906 265E	16363	07C 906 262 AH	16669	8627599	13118	30713593	15185		
06C 906 265L	16727	07C 906 262A	16400	8627600	15695	30713594	15179		
06C 906 265M	16729	07C 906 262AB	17258	8627750	17070	30713595	15180		
06D 906 265	16785	07C 906 262AC	17260	8631643	17036	30713734	15801		
06E 906 265C	17030	07C 906 262AD	17262	8631670	17070	30731939	15806		
06E 906 265D	13955	07C 906 262AE	16663	8642230	16446	30735327	15179		
06E 906 265E	13944	07C 906 262AF	16665	8658090	16198	30735328	15810		
06E 906 265F	13922	07C 906 262AG	16667	8658133	17135	30735329	15811		
06E 906 265N	15158	07C 906 262AH	16669	8670130	16447	30735330	15812		
06E 906 265P	15157	07C 906 262BB	17055	8670167	16488	30751545	17332		
06F 906 262AC	17045	07C 906 262BC	17057	8670276	17137	30751797	15177		
06F 906 262AE	16816	07C 906 262BD	17059	8670277	17134	30751864	15815		
06F 906 262P	16741	07C 906 262BE	17061	8670278	17136	30751865	15816		
06F 906 262R	17040	07C 906 262CB	17344	8670279	17135	30756121	15817		
077 906 262	17227	07C 906 262CC	17346	8677894	16488	30756122	15818		
077 906 262A	17229	07C 906 262CD	17348	9125371	15062	30774569	15822		
077 906 262B	16582	07C 906 262CE	17349	9125372	15063	30774651	15823		
077 906 262C	16584	07C 906 262D	17105	9125580	15097	YUGO			
077 906 262D	17244	07C 906 262H	16412	9125582	15099	46641555	13194		
077 906 262E	17246	07C 906 262K	17116	9125583	15057				
077 906 262G	16609	07C 906 262M	16515	9135329	13937				
077 906 265	13957	07C 906 262N	17183	9135621	13376				
077 906 265A	13957	07C 906 262P	16517	9135622	15098				
077 906 265AA	16406	07D 906 262A	16416						

Small Engine Applications

Oxygen Sensors

Make & Model (or Engine/Year)	Oxygen Sensor -OE Type	Make & Model (or Engine/Year)	Oxygen Sensor -OE Type
Riding Mowers and Tractors		Motorcycles & Snowmobiles	
DIXIE CHOPPER		BMW	
w/ Kohler 26 h.p. (CV26) Engs.	12014	F650 GS	
EX-MARK		09/1999-	13559
w/ Kohler 26 and 28 h.p. (CH26 / CH28) Engs.	12014	K100 RS	
GREAT DANE		09/1990-12/1992	15676
w/ Kohler 26 and 28 h.p. (CH26 / CH28) Engs.	12014	K1100 LT Series	
HUSQVARNA		01/1992-12/1999	13475
w/ Kohler 26 h.p. (CV26) Engs.	12014	K1100 RS Series	
TORO		01/1993-12/1996	15676
w/ Kohler 26 and 28 h.p. (CH26 / CH28) Engs.	12014	K1200 LT	
WALKER		01/1999-	15676
w/ Kohler 26 h.p. (CH26) Engs.	12014	K1200 RS Series	
Forklifts		10/1996-	15678
CLARK - w/ following engines		R850 C	
GM 3.0L I-4	15470	10/1997-	15678
Mitsubishi 2.0L I-4	15470	R850 GS	
Mitsubishi 2.4L I-4	15470	01/1998-	15676
DAEWOO - w/ following engines		R850 R	
GM 4.3L V-6	15470	10/1994-	15676
GM 3.0L I-4	15470	R1100 Series	
Mitsubishi 2.0L I-4	15470	08/1993- exc. R1100 S	15676
Mitsubishi 2.4L I-4	15470	01/1998- R1100 S	15678
		R1150 Series	
		08/1999-	15678
		R1200 Series	
		10/1997-	15678
		BUELL	
		Firebolt XB9R	
		2002-	12014
		S&S CYCLE	
		V-Twin EFI engines - all	
		2005-	0258986615
		POLARIS	
		Frontier 780	
		2002-	12014
		Polaris FS Snowmobile	
		2005-	17205
		Polaris FST Snowmobile	
		2005-	17205

Bosch Recommended Check/Replace Intervals

Many vehicle manufacturers do not provide recommended check/replacement intervals for oxygen sensors, because it is hard to predict when an oxygen sensor will fail.

OEM oxygen sensor manufacturers, such as Bosch, work hard to ensure that oxygen sensors last as long as possible. The latest designs can last over 150,000 miles under laboratory bench-testing conditions! But out on the road, sensors are subject to very difficult conditions which can cause sensors to fail earlier than they do under laboratory conditions.

For example, oxygen sensors can fail when the sensor's ceramic element is exposed to certain types of silicone compounds or when an oil-burning engine leads to the sensor becoming oil-fouled. Also, a small amount of poorly refined gasoline can kill an oxygen sensor, as can the use of some over-the-counter fuel additives which are not "oxygen sensor safe."

These failures can occur either: 1) instantaneously at the time the contaminant contacts the oxygen sensor, causing a dead (totally nonfunctional) sensor, or 2) gradually over a period of time. Gradual deterioration results in a "slow" sensor which does not react as quickly as it should, thus causing the catalytic converter to perform less efficiently. This can lead to premature failure of the catalytic converter, which is an expensive item to replace. Under conditions of gradual deterioration, "slow" sensors eventually become "dead" sensors.

Unfortunately, the symptoms of a "slow" or even "dead" oxygen sensor are not always obvious to the vehicle owner, unless the vehicle fails an emissions test, a decline in fuel economy is noticed, or if driveability problems occur.

Furthermore, while a "dead" sensor can be detected by the do-it-yourselfer with a relatively inexpensive digital volt-ohmmeter, a "slow" sensor can only be diagnosed by a more expensive oscilloscope or scope meter. Thus, the do-it-yourselfer will probably not be able to spot an oxygen sensor problem until it is too late, and the catalytic converter is already well on its way to failure.

As part of a sensible preventive maintenance program, we recommend that either:

- 1) oxygen sensors be checked on a lab scope or scope meter by a professional automotive technician at intervals specified in this catalog, or
- 2) oxygen sensors be replaced by the do-it-yourselfer at the intervals specified in this catalog.

The "check/replace" intervals published in this catalog are not intervals specified by the vehicle manufacturer, but are instead recommendations based on our experience and knowledge of oxygen sensor technology.

One-wire and two-wire "unheated" type oxygen sensors should be checked or replaced every 30,000-50,000 miles. These sensors rely solely on hot exhaust gas to heat up to operating temperature, and therefore are designed to allow a large volume of exhaust gas to make contact with the active ceramic element. Therefore, these sensors are exposed to contamination, especially the "wide-slot" varieties found on Chrysler, Ford, and General Motors vehicles.

"Heated" type oxygen sensors have a built-in heater which heats the sensors up to operating temperature. Therefore, much less exhaust gas needs to contact the ceramic element, making these sensors less prone to contamination. "Heated" type sensors can also be located further downstream (closer to the catalytic converter), which increases their life expectancy by reducing thermal shock. In addition, the latest versions feature improved ceramic elements which are more resistant to silicone, oil, and lead contamination. "Heated" type oxygen sensors should be checked or replaced every 60,000-150,000 miles.



Oxygen Sensors

Technical Information

Can Use Possible Substitutions (Footnote # 71):

Sensors in each column are identical except for the length of the wiring harness. The sensor with the longer wiring harness can be used to replace the sensor with the shorter wiring harness.

Part No.	Length		Can Use 1	Length		Can Use 2	Length		Can Use 3	Length	
	in.	mm		in	mm		in	mm		in	mm
12022	21.7	550	12023	25.4	645						
12043	38.5	978	12019	43.7	1110						
12052	17.7	450	12053	30.1	765						
12054	22.0	560	12203	39.8	1010						
12102	11.8	300	12114	13.4	340	12112	20.3	515			
12114	13.4	340	12112	20.3	515						
13008	19.7	500	13058	28.7	730						
13010	11.4	290	15701	15.0	381						
13012	25.2	640	13047	28.7	730						
13019	38.2	970	13957	47.6	1210						
13026	14.7	374	15637	32.7	830						
13029	21.6	549	15503	27.6	700						
13034	66.1	1680	13119	66.1	1680						
13045	20.5	520	13038	24.0	610						
13047	28.7	730	13011	36.3	922						
13053	8.7	220	13022	13.9	354						
13056	15.0	380	13489	27.6	700						
13058	28.7	730	13011	36.3	922						
13059	61.8	1570	13049	69.3	1760						
13060	8.9	225	13389	9.4	238						
13068	24.8	630	13109	37.0	940						
13095	17.9	455	13136	18.5	470						
13100	18.1	460	13399	22.1	562						
13109	37.0	940	13108	55.7	1415						
13111	50.4	1280	13450	67.3	1710	13483	55.0	1397			
13120	34.6	880	13301	44.9	1140						
13122	11.9	302	13100	18.1	460	13399	22.1	562			
13132	11.8	300	13695	15.4	390						
13134	11.8	299	13139	13.9	354						
13136	18.5	470	13354	20.9	530						
13153	21.9	555	13155	35.9	911						
13164	25.6	649	15208	29.9	760						
13165	22.8	580	13112	39.0	990						
13178	16.9	430	13694	21.7	552						
13184	22.9	582	13974	24.6	625						
13194	16.1	410	13032	19.3	490						
13198	14.6	370	13200	20.5	520						
13224	17.7	450	13091	22.4	570						
13226	35.8	910	13257	50.0	1270						
13231	21.3	540	13108	55.7	1415						
13242	31.1	790	13228	36.6	930						
13245	49.6	1260	13299	72.0	1829						
13249	18.5	470	13007	22.4	570						
13254	18.3	465	15479	23.4	595						
13255	7.1	180	13250	17.7	450						
13256	17.3	440	13637	19.7	500						
13258	22.8	579	13071	30.7	780						
13264	32.7	830	13226	35.8	910						
13271	11.8	300	13264	32.7	830						
13272	12.2	310	13280	18.0	457						
13287	13.0	330	13579	19.3	490						
13287	13.0	330	15266	18.1	460						
13311	14.4	365	13420	12.2	310						
13311	14.4	365	13224	17.7	450						
13315	34.8	885	13413	50.8	1290						
13316	10.8	275	13272	12.2	310						
13361	29.5	750	15044	36.4	925						
13372	7.9	200	15708	11.1	281						
13394	16.5	420	15076	21.7	550						
13444	16.5	420	13029	21.6	549						
13474	14.6	372	13055	29.3	745						

Technical Information

Oxygen Sensors

Part No.	Length		Can Use 1	Length		Can Use 2	Length		Can Use 3	Length	
	in.	mm		in.	mm		in.	mm		in.	mm
13482	8.7	220	13416	8.7	220						
13483	55.0	1397	13450	67.3	1710						
13500	15.0	380	13766	18.5	470						
13571	10.8	275	13844	12.4	315						
13574	22.4	568	13892	23.6	600						
13579	19.3	490	15327	19.7	500						
13581	31.6	803	13879	37.4	950						
13637	19.7	500	15391	21.1	535						
13659	7.7	195	13271	11.8	300						
13694	21.7	552	13682	43.3	1100						
13728	12.8	325	15487	12.8	325						
13766	18.5	470	13035	23.6	599						
13780	12.2	310	13694	21.7	552						
13787	13.0	330	13694	21.7	552						
13832	10.4	265	13460	12.6	320						
13833	33.3	845	13425	38.8	985						
13863	19.7	500	13563	26.4	670						
13870	9.4	240	13887	14.2	360						
13872	40.9	1040	15549	48.8	1240						
13886	14.2	360	15322	22.4	570						
13887	14.2	360	15265	16.9	430						
13892	23.6	600	13838	29.7	755						
13942	10.8	274	13950	15.4	390	13953	19.1	485			
13950	15.4	390	13953	19.1	485						
13959	21.5	545	13184	22.9	582						
13960	25.2	640	13838	29.7	755						
13970	9.8	250	13886	14.2	360						
13974	24.6	625	15477	25.2	640						
15028	17.3	440	13538	19.7	500						
15028	17.3	440	15032	19.7	500						
15040	13.8	350	13765	13.8	350						
15044	36.4	925	13872	40.9	1040						
15278	12.2	310	15327	19.7	500						
15280	13.2	335	13694	21.7	552						
15323	20.9	530	13574	22.4	568						
15327	19.7	500	15323	20.9	530						
15391	21.1	535	13184	22.9	582						
15459	23.0	585	15615	24.3	618						
15461	24.4	620	15583	26.0	660	13412	27.8	705			
15477	25.2	640	15484	31.1	790						
15503	27.6	700	13111	50.4	1280						
15519	10.6	270	15525	10.6	270						
15543	12.2	309	13361	29.5	750						
15544	42.1	1070	13111	50.4	1280						
15564	12.4	315	15284	14.8	375						
15566	12.8	325	15487	12.8	325						
15582	18.1	461	15462	26.0	660						
15583	24.4	621	13412	27.8	705						
15583	24.4	620	15594	26.3	675						
15591	15.7	400	13407	25.0	635						
15596	27.6	700	15600	27.6	700						
15604	24.4	620	15615	24.4	620						
15623	19.7	500	15486	20.1	510						
15634	9.8	250	13765	13.8	350						
15705	11.8	300	13122	11.8	300	13100	18.1	460	13399	22.0	560
15710	13.9	352	13377	14.6	370						
15716	10.6	270	15717	15.4	392	15718	18.9	481			
15717	15.4	392	15718	18.9	481						
15718	18.9	481	15719	21.8	553						

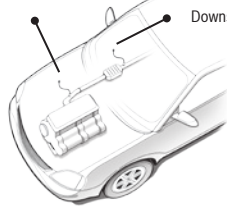
Term	Definition
Air/Fuel Ratio	In combustion, the amounts (in mass) of air and fuel involved in the combustion. For gasoline engines, the ideal Air/Fuel ratio is 14.7:1.
Air/Fuel (A/F) Sensor	See Wideband A/F Sensor. The term used by some sensor and vehicle manufacturers to differentiate wideband oxygen sensors from switching oxygen sensors.
Closed Loop Operation	Closed loop operation for an engine occurs when the ECM is receiving inputs from all sensors. In closed loop operation, the ECM is able to vary the cycle time for the injectors based on the inputs of throttle position, air mass, and the amount of free oxygen in the exhaust stream. Typically, oxygen sensors are the last sensors to become operational, since they must be heated to an operating temperature of at least 350° C. Until the oxygen sensors become operational, the ECM uses presets to determine the injector cycle times.
Control Sensor	Same as pre-catalyst sensor.
Diagnostic Sensor	Same as post-catalyst sensor.
Downstream Sensor	Same as post-catalyst sensor.
ECM or ECU	Engine Control Module or Electronic Control Unit; the computer that receives sensor input and controls injector timing.
Emissions–California	Vehicles certified for sale in California have an underhood emissions label stating that the vehicle conforms to U.S. EPA regulations and to California regulations applicable to the vehicle model year. Several states in the northeast, including Maine, Massachusetts, New York, and Vermont have adopted the California standards. Therefore, if there is a difference in oxygen sensor part numbers for California (Calif.) vehicles in this catalog, that difference may also apply to vehicles sold in these northeastern states.
Emissions–Federal	Vehicles with “49-State Emissions” certification have an underhood emissions label stating that the vehicle conforms to U.S. EPA regulations applicable to the vehicle model year. The label also states that the vehicle does not meet the emissions requirements for California or, “a state that has adopted California standards.”
Heated Sensor	A three or four wire sensor that includes a resistive element to bring the oxygen sensor to its operating temperature much more quickly than can be achieved using the hot exhaust gases alone.
Lambda (-I)	The ratio of the current (instantaneous) Air/Fuel ratio to the ideal (14.7:1) Air/Fuel ratio. If the engine is running rich, $\lambda < 1$. If the engine is running lean, $\lambda > 1$.
Monitor Sensor	Same as post-catalyst sensor.
OE-Fit Sensor	A sensor that is the original equipment sensor or one that has been engineered to fit multiple applications with minimal adjustment by the installer.
Oxygen Sensor	A device that generates a variable voltage or alters a reference voltage depending on the amount of free oxygen in the engine exhaust.
Planar Sensor	An oxygen sensor in which the ceramic sensing element with integrated heater is a thin, flat sandwich of zirconia ceramic and printed metallic and insulating layers. These layers are fused into a single piece at very high temperature in a kiln.

Glossary of Terms

Term	Definition
Post-Catalyst Sensor	An oxygen sensor mounted in the exhaust stream after the catalytic converter. The output from this sensor is used by the ECM primarily to ensure that the catalytic converter is performing within specifications.
Pre-Catalyst Sensor	An oxygen sensor mounted in the exhaust stream before the catalytic converter. The output of this sensor is used by the ECM to vary injector timing.
Reference Air	Air inside the oxygen sensor that provides a “normal” oxygen reference, in comparison to the amount of oxygen in the exhaust stream.
Switching Sensor	For zirconia types, the voltage output from the sensor changes very rapidly from 800mv to 300mv as the exhaust mixture changes from rich (no free oxygen) to lean (free oxygen). This rapid change occurs at the ideal Air/Fuel mixture of 14.7:1. The opposite occurs as the exhaust mixture changes from lean to rich. For titania types, the resistance across the sensing element changes very rapidly at the ideal Air/Fuel mixture. A voltage is applied by the ECM, and the voltage drop across the sensing element is measured.
Thimble Sensor	An oxygen sensor in which the ceramic sensing element is shaped like a thimble, with a hollow space inside for the reference air and heater. The ceramic can be either zirconia or titania. Nearly all oxygen sensors prior to 1998 were thimble designs.
Titania Sensor	The ceramic sensing element of the oxygen sensor is made of titania dioxide. Resistance across the sensing element changes with the amount of free oxygen in the exhaust gas.
Unheated Sensor	A one or two wire oxygen sensor that depends on the temperature of the exhaust gas to reach an operating temperature of 350° C.
Universal Sensor	An oxygen sensor that typically includes a connector(s) that allows the sensor to utilize the existing OE wire configuration. Universal sensors can often cover a wide range of applications.
Upstream Sensor	Same as pre-catalyst sensor.
Wideband A/F Sensor	An oxygen sensor that produces a precise output signal in proportion to the Air/Fuel ratio. This allows the sensor to accurately measure the oxygen content in the exhaust gas.
Zirconia Sensor	The ceramic sensing element of the oxygen sensor is made of zirconia dioxide. Voltage generated across the sensing element changes with the amount of free oxygen in the exhaust gas.

The illustrations below show several of the most common mounting configurations for oxygen sensors, depending on engine type and alignment. The terms used for each sensor location match the terms used in the Application Guide of our catalog. Check carefully to ensure that you are using the correct sensor for each location. Please note that the left side is the drivers side, the right is the passenger side.

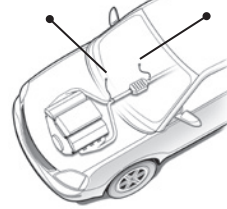
Upstream Sensor



Downstream Sensor

Inline 4-6 Cylinder, Longitudinal Mount
1 Upstream, 1 Downstream

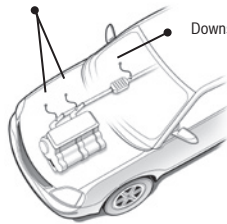
Upstream Sensor



Downstream Sensor

V6-V10, Longitudinal Mount
1 Upstream, 1 Downstream

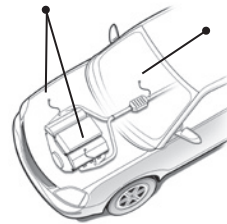
Upstream Sensor, Front and Left Manifold/Exhaust



Downstream Sensor

Inline 4-6 Cylinder, Longitudinal Mount
2 Upstream, 1 Downstream

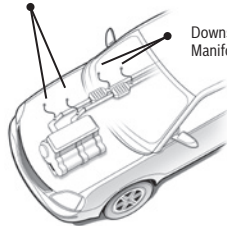
Upstream Sensor, Front and Left Manifold/Exhaust



Downstream Sensor

V6-V10, Longitudinal Mount
2 Upstream, 1 Downstream

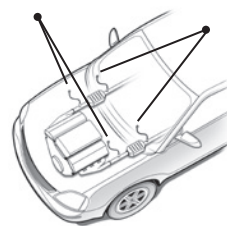
Upstream Sensor, Front and Left Manifold/Exhaust



Downstream Sensor, Front and Rear
Manifold/Exhaust

Inline 4-6 Cylinder, Longitudinal Mount
2 Upstream, 2 Downstream

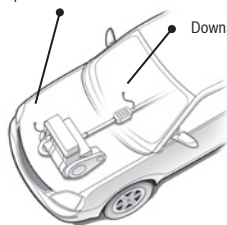
Upstream Sensor, Front and Left Manifold/Exhaust



Downstream Sensor, Right and Left
Manifold/Exhaust

V6-V10, Longitudinal Mount
2 Upstream, 2 Downstream

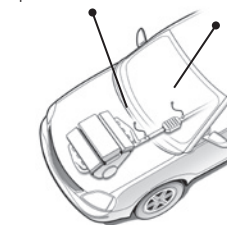
Upstream Sensor



Downstream Sensor

Inline 4-6 Cylinder, Transverse Mount
1 Upstream, 1 Downstream

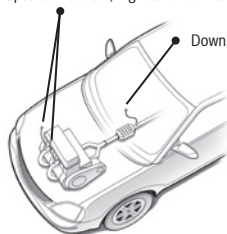
Upstream Sensor



Downstream Sensor

V6 or V8, Transverse Mount
1 Upstream, 1 Downstream

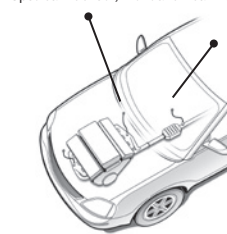
Upstream Sensor, Right and Left Manifold/Exhaust



Downstream Sensor

Inline 4-6 Cylinder, Transverse Mount
2 Upstream, 1 Downstream

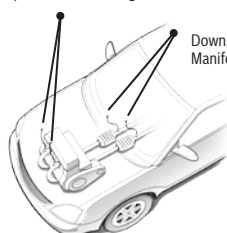
Upstream Sensor, Front and Rear Manifold/Exhaust



Downstream Sensor

V6 or V8, Transverse Mount
2 Upstream, 1 Downstream

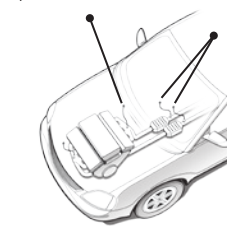
Upstream Sensor, Right and Left Manifold/Exhaust



Downstream Sensor, Right and Left
Manifold/Exhaust

Inline 4-6 Cylinder, Transverse Mount
2 Upstream, 2 Downstream

Upstream Sensor, Front and Rear Manifold/Exhaust



Downstream Sensor, Front and Rear
Manifold/Exhaust

V6 or V8, Transverse Mount
2 Upstream, 2 Downstream

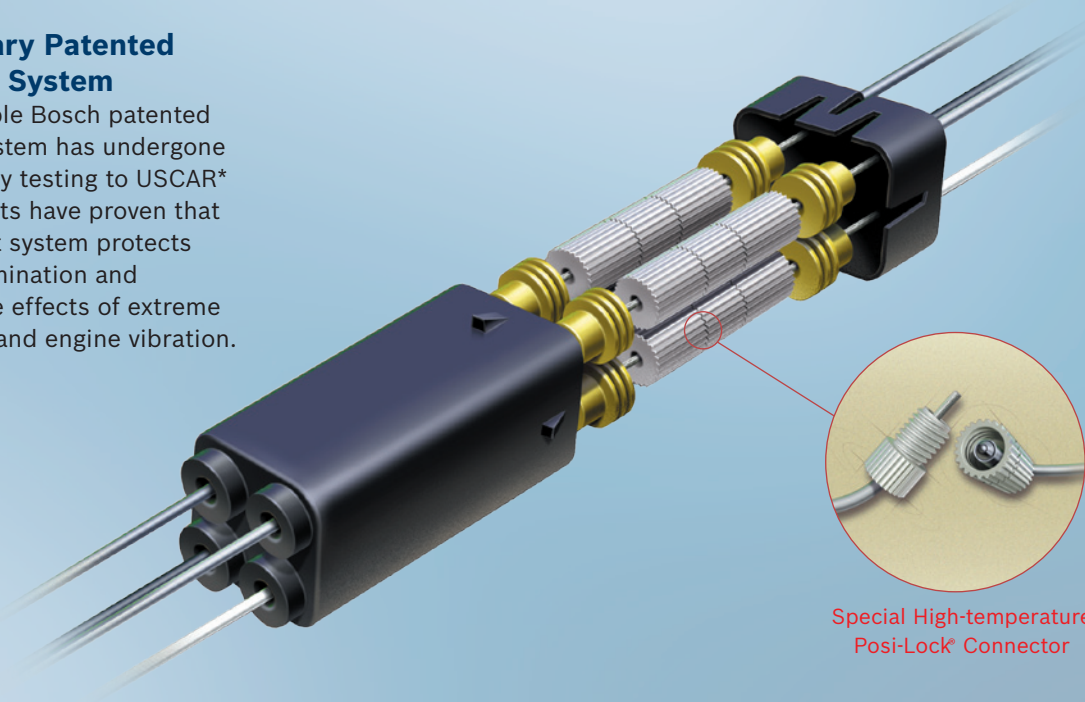
Product Information
Oxygen Sensors

New Items	New Items	New Items	New Items	Sell Out	Reorder	Sell Out	Reorder	Sell Out	Reorder
13113	15387	15788	17124	12016	12061	13716	13937	15453	13822
13114	15388	15790	17126	12017	12053	13719	15825	15455	13822
13437	15449	15792	17163	12030	12046	13728	15487	15457	15583
13610	15463	15793	17177	12052	12053	13750	13753	15459	15615
13621	15468	15794	17258	12107	12108	13758	15295	15461	15583
13688	15502	15795	17260	12204	13191	13759	13041	15469	13714
13715	15532	15796	17262	13033	13500	13765	15040	15472	13680
13744	15533	15798	17287	13040	15634	13776	13937	15474	13534
13763	15539	15799	17296	13045	13038	13778	13441	15483	13184
13777	15542	15800	17298	13084	13924	13786	15284	15485	13355
13781	15555	15801	17313	13086	13539	13795	13801	15488	13355
13937	15574	15806	17315	13113	15703	13803	13801	15499	13687
13954	15584	15810	17318	13123	13100	13827	13420	15500	12028
13958	15586	15811	17320	13131	15719	13833	13425	15507	13687
15113	15636	15812	17322	13133	15717	13845	13745	15509	13687
15114	15640	15815	17324	13153	15704	13865	13581	15513	13687
15116	15641	15816	17326	13154	13104	13873	15290	15516	13412
15141	15642	15817	17328	13168	13104	13895	13581	15519	15525
15142	15649	15818	17330	13177	15719	13966	13256	15520	15369
15199	15670	15822	17332	13205	13322	13975	13938	15528	15665
15200	15671	15823	17334	13206	13957	13976	15479	15544	13111
15201	15672	15824	17336	13221	13420	13987	13104	15546	13193
15214	15674	15825	17344	13237	13420	13992	15244	15547	13178
15227	15677	15932	17346	13239	13176	13995	13540	15548	15564
15232	15683	15958	17348	13241	13007	15007	15511	15550	15543
15233	15684	15990	17349	13266	13268	15029	15028	15551	15280
15236	15685	15992	17403	13277	15701	15038	15634	15553	15280
15240	15686	15994	17430	13293	15711	15077	13441	15554	13455
15241	15687	16495	17432	13295	13051	15081	15400	15557	15561
15248	15688	16575		13316	13272	15091	15487	15560	15290
15251	15689	16611		13317	15704	15096	15487	15563	13178
15252	15690	16613		13332	13100	15102	13420	15565	13455
15253	15691	16663		13341	13340	15135	15156	15566	15487
15254	15692	16665		13368	13289	15162	15284	15567	13355
15260	15695	16667		13372	15708	15166	15165	15575	13371
15264	15696	16669		13386	13791	15186	15717	15577	13822
15268	15697	16797		13389	13539	15213	13353	15579	15514
15286	15698	16826		13400	13417	15221	15583	15585	15515
15293	15699	16828		13479	13450	15226	15290	15587	15360
15296	15723	16837		13496	13111	15231	13355	15594	15583
15318	15724	16839		13513	13071	15238	13619	15595	15462
15320	15752	16849		13518	13355	15262	13287	15596	15600
15334	15753	16851		13535	15717	15279	13193	15598	15583
15337	15755	16861		13537	13056	15288	13035	15604	15615
15341	15756	16864		13541	15717	15291	15290	15616	13720
15346	15758	16887		13554	13354	15301	13718	15618	15087
15364	15759	16889		13563	13551	15302	13672	15619	13355
15367	15761	16891		13569	15716	15303	13610	15623	15486
15368	15762	16893		13570	15716	15305	13664	15625	15635
15370	15763	16919		13575	13104	15307	13610	15639	13361
15371	15764	16958		13585	13574	15324	15314	15660	13751
15373	15765	17005		13586	15244	15328	13289	15662	15659
15374	15767	17022		13600	15716	15336	13469	15679	13394
15375	15768	17024		13602	13218	15356	15514	15879	13273
15376	15772	17066		13612	15719	15361	15514	15892	13361
15379	15774	17082		13623	13353	15372	17264	15908	13256
15380	15776	17084		13624	13340	15390	13075	15939	15949
15381	15777	17094		13633	13619	15392	13256	15952	15948
15382	15782	17112		13655	13256	15395	15394	15970	13619
15383	15783	17114		13665	13687	15397	13680	15976	15290
15384	15784	17115		13669	13670	15399	13680	15978	15290
15386	15786	17117		13671	13610	15404	13075	15980	15290
				13677	15948	15411	13256	16039	16121
				13684	13377	15412	13256	16119	16121
				13691	13687	15421	13355	16469	16363
				13705	13680	15422	13355	17033	17137
				13708	15476	15425	13737	17038	15667
				13711	13610	15434	15543	17134	17036
				13712	13937	15440	13937	17185	17264
				13713	15825	15451	13412		

Bosch Patented OE SmartLink™ Connector System

Revolutionary Patented Connection System

The submersible Bosch patented connection system has undergone rigorous quality testing to USCAR* standards. Tests have proven that this watertight system protects against contamination and withstands the effects of extreme temperatures and engine vibration.



Special High-temperature Posi-Lock® Connector

Patented Connector System Features:

Waterproof connector body

- ▶ Fully submersible
- ▶ Allows OE type sensor to “breathe”

Special high-temperature Posi-Lock® connectors

- ▶ Quick, easy installation
- ▶ Screw on caps are re-usable in the event of a wiring error

Designed and tested to rigorous standards

- ▶ Vibration, thermal exposure, thermal shock
- ▶ High current flow

OE SmartLink™ Connector System

Bosch offers a patented connector system that allows, OEM specific, Heated Oxygen sensors to cover a wide range of applications by simply installing the connector system on the existing wire harness.

The OE SmartLink™ system includes an OEM specific heated oxygen sensor that comes standard with a 24" wire harness. The 24" extra-length harness allows for added replacement of any worn wire from the existing OE sensor harness. The patented connector comes in an easy to use kit that contains all the necessary components to do the job right.



*USCAR is a consortium of Chrysler LLC, Ford Motor Company and General Motors Corporation

Posi-Lock® is a registered trademark of Swenco Products.

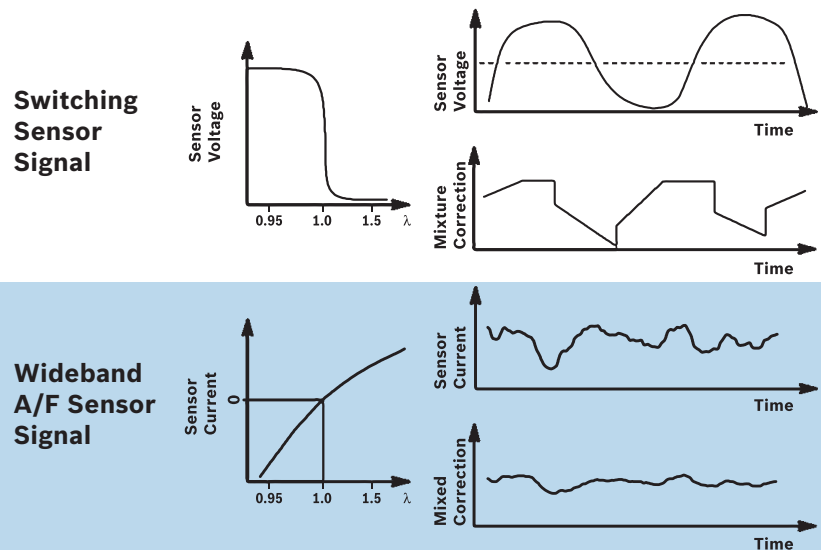
Bosch Premium Oxygen Sensors

Bosch leads the way in oxygen sensor technology and innovation with over 500 million oxygen sensor units manufactured since 1976. Bosch is the trusted leader in Premium Oxygen Sensors and known worldwide for quality and performance.

What is the Difference Between Switching & Wideband A/F Sensors?

Switching: Standard narrow band type Oxygen Sensors operate between 0 and 1 volts, and are only capable of accurately measuring a stoichiometric air/fuel ratio (e.g. 14.7:1). A richer or leaner condition results in an abrupt voltage change and is only useful for qualitative determination. Modern automobiles use “switch” like sensing at idle and part throttle to make small compensations in fuel delivery to keep the air/fuel ratio near 14.7:1.

Switching vs. Wideband A/F Output



Note: The signal from the wideband sensor does *not* toggle around 450 mV!

Wideband A/F: Wideband Air/Fuel Ratio sensors, such as the Bosch LSU series, utilize a more sophisticated sensing element that enables them to produce a precise output in proportion to the air/fuel ratio. As a result, a wideband A/F sensor measures exhaust gas oxygen content accurately from as rich as 9.0:1 to as lean as free air. The use of Wideband A/F sensors is growing rapidly as original equipment in vehicles and in high-performance specialty markets.