Important: Use of non-CEM pairs may cause develoably concerns. The enhance sphere carries enhance gaves, handle by the catality concerns. The modifier and inits a scenaria: Egglobality where enhances trace in test-annel. In our brace share a brace sphere trace brace brace sphere in the enhance sphere sphere sphere sphere sphere and a U-Mar a fareger concerlor with a sphere. Enhanch traces and a strenger concerns the sphere sphere sphere sphere sphere sphere sphere Enhanch traces and a strenger concerns the sphere Enhanch traces and a strenger concerns the sphere Enhanch traces and a strenger traces the sphere sphere sphere of and the sphere sphere sphere sphere sphere sphere sphere Enhanch traces and a strenger sphere Enhanch traces and a strenger sphere Enhanch traces and a strengt sphere transform der often components from damage das is the head to sphere shared sphere Enhanch sphere Enhanch sphere sphere

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fic Converter

IN LOWING The calify converte's an emission control device added to the engine enhance system in order to reduce hydrocatores (FC), carbon monotes (CO), and caldes of nitrogen (HO n) addemains the Net Analogae. The calify converter's comprised of a contenic month substate, supported in incluidion and housed within a sheet mell sheet. The substate may be weat/cated with 3 noble media:

Palladium (Pd)
 Platinum (Pt)
 Rhodium (Rh)
The catalyst in the converter is not serviceable.

Male: The advances in a second secon

Or some exhaust systems may be equipped with a resonator. The resonator, located either before or after the muffler, allows the use of mufflers with less back pressure. Resonators are used when vehicle characteristics require specific exhaust turing.

atment System Overview

The deside exhaust alterituatinent system is designed to reduce the levels of hydrocarbors (HC), cathon monoids (CO)) oxides of nitrogen (NDx), and particulate matter remaining in the vehicle's exhaust gases. Reducing these particulates acceptable levels is achieved through a 3 steps process.

A decial oxidanti catalyst (DOC) steps
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In the second In order to generate the high exhaust temperatures needed for regeneration, the alterteatment system increases exhaust temperatures by injecting desel fael directly into the exhaust gase entering the DDC. This is accomplished by means of an ECM-controlled ball injectr, called the hydrocathon injector (HCI), in the exhaust per spatial of the DDC. Injecting tall directly into the exhaust their than using a postivited on statlegy gastary indexes altitle dilator. Proper DOC function requires the use of ultra-low sulfar dissel (ULSD) loal containing less than 15 parts-per-million (ppm) sulfar. Levels above 15 ppm will reduce catalyst efficiency and eventually result in poor driveability and one or more DTCs being set.

He design the design is the design of the de supportant. This sensors much be to their accounts which they analogue are available to the DU. The Control of the analogue are available to the DU. The Control of the DU. The Control of the DU and The DU and

aust Fluid (DEF) System

The DEF system consists of the following components located at the DEF res-

 An electrically-operated reductant pump (16)
 Anductant purge valve (15)
 Anductant pressure sensor (13)
 Anductant pressure sensor (14)
 Reductant system heaters (12) ~) ionent. an elect

The remaining DEF system com

The exchange reporter fields approximately 10 flams (5-bits) (4DEF At EDE controlled unter within the network popular proximately DEF to the advance shares the EDE and a soft adda measure and the EDE with the DEF pressure service and the EDE within a victage signal proportional to the inductant pressure generated by the DEF pump. The EDM varies the duby-cycle of the pump vidtage to maintain inductant pressure generated by the DEF pump. The EDM varies the duby-cycle of the pump vidtage to maintain inductant pressure generated by the DEF pump. The EDM varies the duby-cycle of the pump vidtage to maintain inductant pressure generated by the DEF pump. The EDM varies the duby-cycle of the pump vidtage to maintain inductant pressure generated by the DEF pump. The EDM varies the duby-cycle of the pump vidtage to maintain inductant pressure generated by the DEF pump. The EDM varies the duby-cycle of the pump vidtage to maintain inductant pressure generated by the DEF pump. The EDM varies the duby-cycle of the pump vidtage to maintain inductant pressure generated by the DEF pump. The EDM varies the duby-cycle of the pump vidtage to maintain inductant pressure generated by the DEF pump. The EDM varies the duby-cycle of the pump vidtage to maintain inductant pressure generated by the DEF pump. The EDM varies the duby-cycle of the pump vidtage to maintain inductant pressure generated by the DEF pump. The EDM varies the duby-cycle of the pump vidtage to maintain inductant pressure generated by the DEF pump. The EDM varies the duby-cycle of the pump vidtage to maintain inductant pressure generated by the DEF pump. The EDM varies the duby-cycle of the pump vidtage to maintain inductant pressure generated by the DEF pump. The EDM varies the duby-cycle of the pump vidtage to maintain inductant pressure generated by the DEF pump. The EDM varies the duby-cycle of the pump vidtage to maintain inductant pressure generated by the DEF pump. The EDM varies the duby-cycle of the pump vidtage to maintain inductant pressure generated by

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ulate Filter (DPF)

sensors 1 well of all the PCM becomes and a sensor of machine transmission of the PCM becomes and the PCM beccmes and the PCM

Reductint pump operation is disabled for a calibrated amount of time to allow the heaters time to have the focum reductert. Once the their period expires, the ECM energiase the inductint pump biorizative wirm induction through the de-energized induction to purple wire and back to the reservoir to speed thereing. The ECM looks for an increase in the induction timeparatem to write the first endow therein is not only on the endow the term of term of the term of the term of t

The DFF optime divid enhant par periodism, sile known is not preventing their release in the atmosphere. This is accompliated by theirs particulariate index what though all we accluster constrainty distances of parase cells. In of the calls, we append it is the interbulk on support at the fibre date. The date that date the date are capped at particulariate the call of the calls are capped at particulariate that the call of the calls are capped at the fibre date. The date that date the date that the Differentiate the call of the Differentiate the call of the call o

Pressure connections at the DPF initia and outlet allow the differential pressure sensor (DPS) to measure the pressure drop across the filter. This pressure drop increases as trapped soci collects in the cells of the DPF aining whiche genation. The rate at which soci collects varies with the power demands placed on the engine. That unchecked, the increasing backpressure will be enrulably result in a divability proteins.

Normal DPF Regeneration pped on the cell walls acts to restrict exhaust flow through the D ure drop across the DPF that increases as the once porcus cell with a voltage signal proportional to sort buildup. Once sort build n exhaust a the DPF he DPF, the

n-normal and the strength of the strength o

The frequency of normal DPF regeneration is a function of the apple number will be additional exhaust heat necessary to premde regeneration event. To initiate a regeneration were, the TeOM commands the HCI to inject additional leal upstream of the DOC in order to create the additional exhaust heat necessary to premde regeneration and burn off the collected soct.

During operation sharts temperature may served 50% (* 1027) to 1.6 the quirk staffs constants of a chartelists the QPC Conversity and to imaging space of prior to the prior temperature of temperat

supportant supported by tables a solutional structure, supportant is supersized as a solutional structure, and structure struc

Do not connect any shop exhaust removal hoses to the vehicle tailpipe.
 Park the vehicle outdoors and issep people, other vehicles, and combustble material away during this procedure.
 Do not leave the vehicle unattended.

Should the vehicle operator fail to drive the vehicle within the conditions necessary to initiate a normal regeneration cycle, the ECM illuminates the Service Engine Scon lamp and displays a REDUCED ENGINE POWER message on the DIC once the scot buildup exceeds a calibrated value. The vehicle will remain in the reduced power model until service

regression is portioned. Service expension is explaind because the ansate of and calleded in the DPF, tream as set total, is to high to be burned of without possible thermal damage to the DPF's service expension is on of served acquire cardinal called on the scan but. When service regression is commands, the EDM balas control of angles gearding with the service expension is and served acquire cardinal balance of the DDF's to the service expension of the service ex

 Service regression must be performed adutors. Most exhaust removal house cannot withstend the high exhaust temporators.
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 Do not law the house unambig advice starter experimentary. ated during regeneration

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