

Disclaimer: I am not a professional automotive technician please feel free to use this list of items at your own risk. Many times a lot can be learned by simply watching a qualified professional work on your 993:

Things to consider when Buying / Servicing / Replacing / Upgrading a 993.

Just a few IF items, items with a "*" can be done at home with basic tools:

- **Clutch - IF** not done once in the past. All sorts of shifting issues can present when a clutch is at the end of its life including slipping on acceleration, a hard to actuate clutch even dinging gears when shifting. A 993 should shift as easily as a Honda Civic. If this is not your experience have it looked at.

While the clutch is out inspect the wiring that leads to the SAI pump where it attaches to a connector on a bracket above the air pump. These wires are known to suffer insulation failure and are easier to deal with when there is access to the back of the engine.

- **1st & 2nd gear synchros – IF** the gears tend to **grind** slightly while shifting especially in cool weather when the car is cold. Grinding is a sound and feel of the system slipping over multiple synchro teeth when shifting. **This is not a common occurrence**, just an experience I had. If the gears exhibit a singe ding when cold that is mitigated by slightly slower shifting and it disappears completely once the tranny warms up this seems to be normal for many of these cars. However if the gears grind and the problem only gets worse with a gear lubricant refresh it is a dead giveaway you have this issue. This was an 80K+ odometer item for me.
- **Differential repair** – When the transmission is open for synchro replacement one of the gears on the differential may exhibit some chips missing from its face. Any shop that does a reasonable amount of Porsche transmission work will have a used or repaired standard differential on hand. This is because many times when a previous customer upgraded to a limited slip differential the shop retained the original. These parts may be

available at a very low cost to you. I have an unsubstantiated theory that when a 911 is pushed to the point of wheel spin it jackhammers the standard differential gears and may be the cause of gouging chips from the gear face showing up at the lubricant drain plug.

- **Steering rack rebuild - IF** leaking - inspect with the under body cover off; a little weeping of the fluid at the rack ends is OK as the end boots really do not seal very well and even less so with age. Wet dripping on the underbody cover suggests an established leak. This seems to be somewhat of a chronological age related issue. It is likely accelerated by corrosion on the rack rod ends as the inside tie-rod end boots lose their sealing ability and road moisture & debris can get inside the boots contaminating the rack. Replacing the inside tie-rod boots may forestall this issue to some extent.

There are significant service life advantages to sending in your own rack for a rebuild rather than accepting a swap-out from the rebuilder's inventory of racks. See Rennlist posting "[Steering rack replacement notes](#)" also see "[How to jack the car up safely](#)" safely, remember As the French say "to die for love" is a good thing however I think they are speaking of this while under something other than a car!

(* Send out rack for rebuild, remove & install yourself on jack stands, very messy two session job - one day to pull the rack, a week later a day to put the rebuild back in.)

- **Replace power steering belt - IF** not done once in past by 80K miles, a skilled technician can replace this belt without removing the engine;
- **Replacement of hydraulic lifter cartridges - IF** noisy at startup after sitting for a day or two; if car sits for an extended period such as a month and the sound presents on startup this is a sign that the lifter cartridge seals may leak a bit but have not progressed to the point where replacement is indicated. This seems to be a chronological age related issue related to the cartridge seals losing elasticity and slipping off.

- **Replace ignition wires - IF** not done once in the past by 60K miles;
- **Replace plugs - IF** not done once in past by 80K miles;
- ***Replace rotor & cap – IF** there is a concern about rough idling. 993 does not exhibit a perfectly smooth idle so what is normal is learned with experience. I found that caps and rotors seem to be a two to three year repeat item on my car. If I leave them longer at some point I get a check engine light and a misfire diagnostic code.
- ***Replace Strut cartridges and or springs - IF** car bounces on rebound while driving, the suspension sits low or seems harsh on brick or cobblestone roads.

If a car has over 60K miles on it, as most examples have by now, it likely has replacement (upgraded) aftermarket struts already that are good-to-go as is. If the aftermarket struts the previous owner put on your car are H&R or Bilstein (most common brands) and some time in the future need replacement, they can be rebuilt at a substantial savings over buying new – saving potentially \$1500 over a new set. Come to think of it this is a very good reason to replace with one of these two brands in the first place.

Many US cars have had their springs swapped out with aftermarket springs early in their life to lower the suspension to more sporting height. Over time these aftermarket springs can sag. Replacing struts, springs or both as a complete coil-over kit is a surprisingly easy job done with jack stands and one of these: “[MacPherson Strut Spring Compressor Set](#)” transforming the ride of the car. Also see “[How to jack the car up](#)” safely. An inexpensive height adjustable coil-over option I have had great daily driver results with for the last several years is the [H&R Street Performance Coil-Over kit 29954-1](#) , both springs and matched struts for all four wheel-ends, cost < \$2000 if you shop around, I got mine on e-Bay. You can reuse the existing rear anti-sway bar down-links with this kit. The only additional parts you will need for the job is 16 replacement lock-nuts for where the strut mounts attach to the body at the top. Lots of aspiring track guys buy kits

with adjustable valving for a considerable premium over this kit, to each his own I say.

- ***Replace Tie rod ends** IF play is present - IF only the end boots are cracked just replace the boots. See: "[Energy Suspension Tie Rod End Dust Boots](#)". Simple tool to do this at home; See "[Tie Rod and Pitman Arm Puller](#)".
- **Replace suspension bushings** - IF car does not feel tight after a known good alignment the bushings should be evaluated for play.
- **Replace distributor belt** - IF by 80K miles it has not been done once in the past; A broken belt can cause significant consequential damage to the engine so checking for a working belt should be done regularly on all cars **and** any time you perceive a change in engine performance, rough idle or other ignition issue. I do a quick check once a year just to be on the safe side. To test just unplug the primary distributor's coil, the one leading to the distributor where the base of the distributor bolts to the engine case. If the car starts and runs at all with only the secondary distributor's coil wire attached the belt is in place, if not it is most likely broken. If the belt is found to be broken and you must drive the car to have it serviced leave only the primary distributor's coil attached to minimize the risk of out of timing cylinder detonation damaging the engine.
- ***Replace Odometer gears** - IF odometer is not working or if not done once in past. The advantage of doing this repair as a preventative fix is you won't have to fish around and find the tiny broken gear teeth that if not found can jamb the mechanism once it is reinstalled. This seems to be an age related issue as the plastic internal gears become brittle, easy kitchen table project. See "[How to repair a broken odometer](#)".
- ***Cleaning the Idle valve** – IF not done in the last 30K miles or the engine seems to idle roughly. The idle valve should never need replacement, just spray-out cleaning until the valve internals rotate freely when you shake the unit. See "[993 Idle Stabilizer Valve \(ISV\) Cleanout](#)". Unlike in this DIY the

last time I cleaned my car's valve I used CRC Electric Motor Cleaner spray to good effect vs brake cleaner, a rather strong petroleum solvent.

- ***Cleaning the air flow sensor** - IF not done in the last 60K miles or so. It must be cleaned with a Q-tip in conjunction with "CRC Mass Air Flow Sensor Cleaner" just spraying it out will not release the grey debris coating on the sensor element, the element when clean looks like a white circuit board. See Rennlist posting: "[Mass Air Flow Sensor MAF Cleaning does it work?](#)",
- ***Door check strap fix** - **IF** making a loud "click" or "pop" when the door is opened or closed. You may have no "pop" sound but observe the strap mounting point on the A pillar shifting slightly as you open or close the door, a sign of future failure. This is a long standing 911 universal body part weakness with a relatively expensive (body shop) fix however it is very easy to avoid. There is a DIY to modify the check strap reducing forces and greatly reducing the likelihood of the check strap progressing to failure going forward. **I would do this DIY modification as soon as I get the car.** See: "[\[Modifying\] 993 Door Check-Strap Detent Assembly](#)"
- ***Door seal repair** – **If** you notice that the door seals on your car look worn where you foot passes over the threshold there is an inexpensive fix. The replacement 993 specific seal is staggeringly expensive and some find using the 964 seal can make for a tight door fit. For \$50 you can buy a door seal made to fit an earlier 1984 to 1988 Carreras. You can cut a section out of it as a donor to replace the worn section on your 993's seal. The profile is the same, the finish differs slightly, no biggie. One seal is long enough for several repair jobs. If you have a concern about joining new to old you can use a small section of vacuum or fish tank air hose slipped into the joined ends to make the mating look perfect.
- *** Remove Oil Filler Bellows** – **IF** it is still present. There may be an oil filling bellows tube nested inside the oil filler neck in the engine compartment. It originally was designed to pull out making an oil fill easier. This bellows

tends to break down and bits of plastic can fall down the filler tube into the engine oil. On many cars this bellows was removed long ago. If you see it inside under the oil filler cap you can pull it out and throw it away. Unfortunately if it is still in place once you pull it out what debris that remains will need to be flushed out and the oil changed.

- **Check engine light – IF** the secondary air injector ports are clogged. I have no experience with this however the previous owner of my car did. I have read antidotal notes such as it shows up more in cars that have spent most of their life in hot climates and that it is related to valve guide wear as the original guides are made of a slightly too soft metal. I have also read that once the valve guides are replaced the problem seems to not return. There is more than one approaches to fix this issue or simply getting the light to stay off:
 - Remove the exhaust manifold & air supply and clean the passages/ports with a wire snake attached to a hand drill & flushing with cleaning solvent. With this process you will replace the check valve, some do this as a DIY project;
 - Add electronics so engine management thinks the clog does not exist, something that may not be legal as well as a disclosure issue when you sell your car, also a DIY item or;
 - Disassemble the engine to clean the ports/passages and replace the valve guides. The official Porsche solution, the one your friendly neighborhood automotive shop will \$love\$ to recommend.

My gut tells me that by now many 993s have had their valve guides replaced, on my car it was done in-warranty years ago. If you do experience this problem you may be able to forestall a full-on disassembly & valve guide replacement for tens of thousands of miles if not indefinitely by engaging in one of the less invasive fixes.

Also a bad air check valve, leaking air hose, faulty air pump, or deteriorated wires (known issue) on the back side of the engine leading to and clamped

above the air pump can also cause the same light to come on. In the case of the wire deterioration I would check this any time you have access to the back of the engine for example during a clutch replacement.

- **Dual Mass Flywheel issue:**

This is a very very uncommon issue. - **IF** your car seems to idle a bit too rough and you have been experiencing:

- The check engine light and;
- A reoccurring non-cylinder or;
- Multiple named cylinder “emission relevant misfire OBD code.

AND you have addressed the inexpensive sources of this such as:

- Run the quick, unplug-the-primary-distributor, belt test,
- Verifying here is not a vacuum leak on the engine,
- Cleaning the idle valve,
- Replacing the distributor caps and rotors and,
- Addressed any cylinder specific reoccurring misfire codes, wires, plugs, and injector (done after the items above and a clearing of the codes with the misfire code still returning).

You may have a problem with the dual mass flywheel (DMF).

The reason for the DMF in the 993 is to address the engine’s ignition-induced rotational speed irregularity cause of vibration in the driveline. At certain speeds ignition timing matches the natural vibrations of the driveline amplifying the vibration causing transmission rattle and body boom.

I am told the litmus test for a failing DMF is to use the PSTII (Porsche tool), put the car in the air and with the car in gear, read the speed sensor directly. I'm told that it will rapidly slow and speed up out of sync with the engine RPM. Also LuK offers a DMF testing tool that physically tests the flywheel once the transmission is removed. If the flywheel needs to be

replaced light weight non-dual mass flywheels are widely discussed on this board as a replacement option.

I researched this option and found that if you replace the flywheel with a light weigh single mass flywheel be aware that you should expect a good bit of additional noise, per Luk testing data and Rennlist postings. Some who have done this like the concept and throttle feel of the simpler flywheel and feel it is a good tradeoff for a perception of improved performance and reliability. Others have found the noise bothersome. Testing has shown installing a single mass flywheel can accelerate wear on engine/drive line components due to increased torsional impact loads to the engine and transmission.

My gut tells me that if you car is tracked regularly considering a single mass flywheel or replacing the DMF flywheel during a clutch replacement may be worth considering however for street driven cars that are not exhibiting a rattling sound when the ignition is switched off and have passed the definitive test above should stick with your installed OEM DMF at clutch servicing.

- **Alarm light on door sills flash in couplets** when the car is locked using the remote key fob – This is an indication that the battery is not providing adequate voltage to the system, a wire is loose or broken or something is wrong with a component in the door lock / alarm / ignition kill system. This symptom should be investigated as it can be something as simple as a battery that needs charging or replacement to a bad component in the door related electronics or a bad alternator/ voltage regulator that results in inadequate battery charging. Although this issue would not cause me to not consider a car for purchase I would be aware of its implications.

Minor inspection items:

- **High mounted tail light with some missing bulb illumination** – A common item. The lamp housing is easily disassembled and if replacement bulbs are purchased from a non-automotive on-line supplier it is inexpensive, <\$10, to

replace the entire set. This is table top DIY soldering iron job and is very easy. There seems to be lots of DIY discussions of replacing the bulbs with LEDs. Seeing that the bulbs have a 10 year + service life and, from personal experience, a neatly done LED conversion is not simple, I would not do this conversion.

- **Airbag light is on** - In many cases this is a non-deployment related airbag system error identified by the air bag warning light in the clock extinguishing after a short while after the car is started. The error light is easily reset by disconnecting the battery or using Durametric Diagnostic software under the 964 menu to reset the light. If this does not work re-soldering the circuit board on the back of the clock solves this issue for some. The soldering is a table top DIY job. See: [Airbag clock fix](#)
- **High mounted stop light not working** – This is a common electrical issue related to a failed connection where the wire passes through the glass. An easy fix with several well documented DIY methods to fix it on the rennlist.com web forum. See: [Cyclops light wire fix](#)
- **Window up/down switch non-functional** - Switch number 964.613.621.00 is slightly different from the older model 911 switches. They have pin connectors for a dedicated wire plug unlike the older cars that had generic paddle connections on the switch backs. For this reason the replacement switches are dedicated to 964 & 993 and so are expensive at \$50 +/- each.

In most cases the pivot on one side of the rocker paddle shears off causing the switch to malfunction.

It turns out you can pry off the switch bezel from the original OE switch body and gain access to the paddle handle and fix it. Seeing that the original switches can last 15 years or longer vs. the aftermarket switches that seem to last just a few years the below fix should last a long time! A well documented fix on Rennlist.com. See: [Paddle Fix](#)

- ***Replace the car audio speakers - IF** they have not already been replaced. The 993 audio systems in these cars are now over 16 years old. By now all

the speaker cones are dried out, have lost their rigidity and can even exhibit rips. The cross-over capacitors are likely dried out and are not working properly if at all. Even a refresh with the most inexpensive aftermarket speakers will be a substantial sound upgrade.

- For the non-premium system a direct door speaker replacement involves just four screws. For the Premium system as in my car I jettisoned the boxes under the door speaker covers and replaced them with 5-1/2" two way aftermarket speakers in conjunction with one inch extension rings. I would not recommend the least expensive aftermarket speaker as they use a simple capacitor as a cross-over and can sound harsh. An alternative is to just install a woofer in the door and use it in conjunction with an aftermarket hi-low signal split passive cross-over and the existing OE tweeter up by the window. I covered up the new stuff with the existing padded OEM Premium speaker cover. Looks stock and sounds much better.
- For the rear speakers getting a speaker with a proper fit is a challenge. Instead of replacing the entire premium speaker fixture I just replaced the internal four inch speaker with an aftermarket coaxial one and disconnected the existing tweeter. Had to drill new speaker mounting holes in the existing rectangular fixture and caulk the edges to seal the new speaker frame in once the speaker was screwed to the fixture. Once the fixture was remounted on the rear deck it looked stock as well.

The wiring diagram in the 993 Shop manual is clear and concise as to how the existing speakers are wired making it easy to tap the new speakers into the existing wiring harness. The upgrade can cost less than \$100 using four inexpensive two-way speakers or the sky is the limit through Crutchfield or other suppliers depending on what level of sound quality you desire.

- **Hard back sports seat leather cover edges detached** – Two related fixes for this. One is to add additional clips, part number 999.507.526.01, used to pin the edge behind the mounting lip on the hard seat back. The other is to spray Lexol leather conditioner to the back of the leather softening it up and allowing the leather to stretch a little more, reducing the tension that seems to pull the leather edge out of place. If the leather is split on one of the seats there are several ways to have a repair done, anything from replacing the section of leather by a shop to a DIY solution of gluing a matching leather patch behind the rip.

Emergency Essentials:

- ***DME Relay failure** - 993s like all cars have known failure items that usually show up in the most inopportune moments. For this reason I keep a spare DME relay or sometimes called a fuel injection pump relay part number 944.615.227.00 or 993.615.227.00 in my car. This relay has internal solder joints that fail from vibration without notice. If your car turns over but won't start 99% of the time it is this relay located in the relay box in the frunk of your car. If you have access to a soldering iron this relay is easy to pop open and reheat the solder joints for a quick fix.
- ***Shredded Belts** – It is advisable to keep a set of fresh replacement belts as they also fail without notice and you will probably find that an on the road garage does not have these specific belts on hand. I also augment my factory tool kit with the few additional tools to make belt changes easy. In this way if I am stuck out in middle of nowhere I can replace the belts DIY. A special splined wrench that fits on the fan center shaft is needed to replace the belts. Many times this tool, supplied with the tool kit, goes missing. Check your kit and make sure you have it or a similar spline socket tool in case you or a technician needs to replace your belts when you are on the road. Use care to make sure you have removed all the belt shrapnel from the failed belt(s) including debris that may have gotten into the fan when replacing the belts. If you ever replace the belts yourself on-the-road use care to **reassemble the pulley components in exactly the order they were**

on originally as to not inadvertently lock the alternator pulley to the fan pulley. When you put it all back together verify that the two engine pulleys spin independently before putting the belts on them.

In addition to the above one can consider the pulley update listed in Porsche Service bulletin 1378, "In case of alternator belt failure or belt noises in conjunction with pulley"

Parts include:

- Existing Belt to be used on Carrera (1 ea.) 999 192 343 50 (760 mm long)
- New Belt to be used on Turbo (1 ea.) 999 192 372 50 (757 mm long)
- Pulley halves (2 ea.) 993 106 268 01 (Yellow, chromated color)
- Shim (0.5 mm) 964 106 268 31 (as required)
- Shim (0.7 mm) 964 106 268 32 (as required)

You will know if this update has been applied to your vehicle as the pulley halves are cast and gold in color where the original pulley halves are stamped sheet metal. One of the up-sides of this update is that the new arrangement does not allow for the storage of the extra shims on the hub of the installed pulley eliminating potential causes of confusion during belt changes.

- ***Extra Key & Fob** – An extra key, fob and fob battery are always good things to have on hand for a number of reasons. Any Porsche dealer can cut you a fresh key stalk from you VIN number. The dealer may require proof of ownership (a title) before placing an order for you. The electronic fob/key switchblade can purchased new or used ones can be found on eBay. Be sure to get one with the same FCC number printed on it as the one you use with your car. Many owners rehouse the fob electronics in a 944 fob housing and use it in conjunction with the classic Porsche key cap. Both of these can be purchased on-line as well. In fact the housing can be had from eBay in color. My electronic key fob is Speed Yellow; take a guess what

color my car is? Mating the key fob to you car so the wireless lock works is quite easy. Here is an easy to follow step by step: [Remote key fob programming made easy.](#)

Ignition Lock Issues – Somewhere along the way the ignition lock / steering column deadbolt will encounter mechanical issues such as sticking or electrical issues with the switch. Be aware that in most cases hosing out the lock and mechanism with CRC Electric Motor Cleaner and re-lubing it with a little WD40 while in the dash fixes mechanical issues. A new lock cost \$1000 and your car's lock should never ever need replacing as in the worse case it can be take to a local automotive lock smith who can make it as good as new for a lot less than a replacement. The electrical switch is an easily replaced part as well.

Safety Upgrades:

***Illuminated Rear Center Reflector** - The 993 sold in some ROW countries included rear facing fog lights. These are not present on the USA cars. In the center section there are two unused lamp positions under the red lens. These two positions can be filled with two bulbs wired to the marker and stop light wires on the left or right tail light. By illuminating these two additional positions the 993 benefits from greatly increased visibility at night from the rear. Here is a fun DIY project to add this simple lighting upgrade. [How to illuminate the rear center reflector as marker and stop lights](#)

***Upgrade to HID Headlights (993 Carrera low beams)** – As you are probably aware the headlamp units pop right out of the 993 using the release levers on each side in the frunk. You may not be aware that most any aftermarket HID lamp kit that includes the “slim” ballast will fit completely inside the headlight unit and is fully reversible. Here are some useful notes if you plan to do this very satisfying DIY project. [Installing High Intensity Discharge \(HID\) headlights on 993 the gotchas](#) In this posting it is mentioned the reaming out of the existing halogen lamp socket. It turns out this is not necessary in most cases. It only becomes an issue if the replacement xenon bulb has a slightly oversized glass envelope, most don't. Getting headlight pod back in and the electrical

plug lined up can be a bit of a trick. Spray some Teflon lube on the tracks the pods slide in on and rub some of the lube around the edges of the electrical socket. Having done this the thing should slid right in and fully seat no problemo!

Andy's opinions on body fluids:

Oil: I have always used Mobil 1. Although it is called synthetic technically it is not, it is made from petroleum but it has been extensively processed to remove the bulk of the naturally occurring substances that must be kept in solution by the additives to avoid sludge. What sold me on this oil is that on my 86' Carrera in Cleveland winters it would take a long time, twenty minutes or more, for regular multi-grade oil to warm up enough for the oil pressure to drop into its proper pressure range. When I filled the engine with Mobile 1 it took less than 60 seconds from dead cold as in well below 32F. Most engine wear, I understand, happens at startup when an engine is not yet warm and so properly lubricated. With Mobil 1 this period is very short. As a plus Mobil 1 is stocked at Walmart, works for me. The again has anyone, who does not track their car, ever seen a "catastrophic oil related engine failure" as fear mongered in oil advertisements? If one changes their oil regularly with the OE recommended options, probably not. If you believe this fear mongering dribble you may have watched Dr. Strangelove one too many times and agree with General Jack Ripper about bodily fluids and their adulteration as a Communist plot.



Fuel System Cleaner: I am standing on thin ice as I have only anecdotal support of my opinion concerning this subject. I hear of issues with clogged fuel injectors and the need to remove and service or replace them from time to time on Rennlist. I have had two electronically fuel injected Carreras. The first one I drove 150K miles without a fuel related problem. My current 993 has never exhibited an injector problem. I attribute this to treating the engines

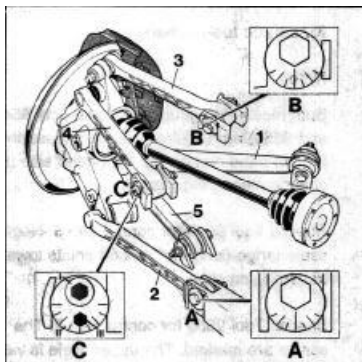
twice a year with two consecutive tanks of gas where I added Techron fuel system cleaner. My understanding is that Techron unlike competitive products will not produce burnt by-product solids as competitive products can if used in high concentration. Also Techron is part of the standard additive package used in Shell branded gasoline.

Other notes:

Unlike earlier 911s the clutch and transmission can be serviced on a 993 without removing the engine in many cases the labor cost for a full engine out can be avoided.

Also the 993 has OBDC so if the ignition wires are bad or the rotor or cap are bad or the plugs are fouled the light will likely be on.

There is lots of talk of the need for the rear kinematic adjustment unique to the 993 during an alignment. It turns out that one of the reasons that this and the other settings need to be looked at during a routine alignment has to do with the adjustments slipping out of position especially if you track your vehicle. With this in mind I would take a cell phone picture up-close of the rear suspension setting positions at time of a known good alignment and periodically check the settings through visual inspection from time to time. The settings for the rear suspension are labeled A, B & C in the below illustration from the shop manual.



Inspecting a car for purchase:

If you are using this list as guidance on a prospective car purchase here are my additional thoughts:

I do not put a lot of faith in Pre-Purchase Inspections by third parties:

- **As they will generally only capture gross mechanical issues and miss most wear related parts and body condition items;**
- **Inspections by any dealer or local servicing shop should be reviewed very carefully as items you would consider expensive repairs they may consider routine maintenance and not worth mentioning until after you have made your purchase;**
- **Most new car Porsche dealers are no longer familiar with these older cars and therefore do not provide any enhanced inspection simply because they are a Porsche dealer;**

You are better off looking at the car yourself with a friendly local PCA member who knows how the car should drive and feel. Making a request through the 993 Technical Forum on Rennlist.com will usually turn up a PCA member in the geography where the car is located who will be more than glad to assist you.

A CarFax is only as valuable as the facts they have in their system. Once out of warranty, something that happened a long time ago with these cars, they are generally serviced and repaired by their owners DIY or small independent mechanical or boutique body shops. These sources of repair almost universally do not report on their work to anyone CarFax uses as an information source. Beyond having a salvage title in its history these reports, I feel, are of little value.

I hear lots of discussion about leak-down testing of engines as a validation of engine condition. From reading the comments I have come to believe that the conditions under which such tests are made vary quite a bit making such tests not reliable as an absolute test of condition. They may be of some very limited value in capturing variances between individual cylinders on a single

engine in the presence of other gross operating symptoms. What appears as general low engine output or OBDC issues can have many reasons that should be ruled out before considering cracking open the engine!

Seeing the age of these cars paint & body work is present on most examples. For example I am on my third rear bumper cover as cars have scraped and bumped my car while parked in the local shopping center. Cosmetic damage to parts that bolt onto the car are not a big deal as they can be replaced and restored to original condition, things such as hoods, doors, front ¼ panels, front & rear bumper covers.

However any car that has seen impact damage to a door jamb or in the rear quarter panel areas can profoundly diminish the integrity of the car and so should be carefully investigated. Also any serious front end or rear damage where the unibody was involved signals that you should not be considering the car. Such damage is identifiable by a competent body shop guy.

As you can see above there are really just a few mandatory “IF” items that may need attention on a 993 as it gets older, a testament to the quality of the engineering and build on these cars.

If the car starts easily and runs reliably do not consider any actions that involves internal engine repairs. An occasional single cylinder OBDC misfire code after a long drive on a hot day or a slow oxygen sensor code in the cooler months require no action, just clear the code and see if it comes back. 993s tend to have a little uneven rumble at idle – this is normal. A slight cycling of the RPM on cold days, a small stumble on acceleration when the engine is cold or in very hot weather, an engine that uses some oil between oil changes, this is normal stuff.

A puff of smoke after sitting a while is OK.



Think “What would Jerry do after sitting a while?”

And most importantly don’t go Neurotic, just enjoy the car!

You know the line, “accept the things I should not fix, have courage to fix the things I must and have the wisdom to know the difference”

Andy