Pantera Consolidated Maintenance Checklist

(**Rev 1p**)

(When print this be sure to separately print the imbedded attachments at beginning and end too;

When revise this keep a backup copy on disk)



ChecklistExplanation(

Explanation and history of this checklist (double-click to open):

WARNING: IF YOU ARE WORKING WITH AN ELECTRONIC (MICROSOFT WORD) VERSION OF THIS CHECKLIST, DO NOT CHANGE THE FONT SIZE OF THE CHECKLIST TABLE TO A LARGER FONT (OR TO A WIDER STYLE FONT THAN "TIMES NEW ROMAN"). THE WORD TABLE"S "CELLS" HAVE BEEN SET SO THAT THEY DO NOT CROSS OVER TO THE NEXT PAGE SO ALL INFO FOR A MAINTENANCE ITEM WILL APPEAR ON ONE PAGE (NOT PART ON ONE PAGE AND THE REST ON THE NEXT PAGE) FOR CONVENIENCE AND TO AVOID CONFUSION. IF THE FONT SIZE IS INCREASED, THE WORDS ON CELLS THAT CURRENTLY TAKE UP AN ENTIRE PAGE WILL "SPILL" OF THE BOTTOM OF THE PAGE INTO NEVER-NEVER LAND AND WON'T BE VISIBLE OR PRINT OUT (THEY WILL REAPPEAR IF YOU DECREASE THE FONT, OR DELETE SOME TEXT ABOVE IT).

References (major and/or frequently cited references for which abbreviations are used – any other references will have their full titles indicated wherever they are cited in the checklist):

FTI = Ford Pantera Technical Information Articles (Sept 1973) (group 52 or 53, unless otherwise indicated)

MECH = Info from mechanic (Steve, unless otherwise noted).

OM = Owners Manual (1973) (pages 35, 44, or 45 unless otherwise indicated)

PBN = Bruce Nardoci Knowledge/Research

PI MAG = Pantera International Magazine article

PITI = Pantera International (PI) Club owners written Technical Information Articles (last one issued in February 1991) (group 52 or 53, unless otherwise indicated)

POCA (MAG or NL) = POCA Magazine or Newsletter article

- POTI = Pantera Owners Club of America (POCA) Club owners written Technical Information Articles (last one issued August 1, 1990) (group 52 or 53, unless otherwise indicated)
- PPQR = Ford Pantera Product Quality Review (also sometimes called "Pantera Product Problems") issued April 1974 (is this the final issued version?) See Attachment 0 (attached since not commonly available, note this is a later version than the version published in POCA NL May 2002)

PSH = Ford Pantera Service Highlights (First Printing Jan 1972, Specifications Insert revised Jan 2, 1972)

TSB = Ford Pantera Technical Service Bulletin (thru Final Index #2 July 11, 1975)

WEB = Website or Pantera Email Listserver or Pantera Newsgroup info

ZF = ZF-Synchroma Gearbox DS-25/2 Assembly Maintenance and Operating Instructions Manual (Reproduced for POCA, section IV unless otherwise indicated)

Key:

ORIG = Was in car when bought it.

TEMP = Car specific temporary problem (will be able to delete off checklist eventually).

TEXT GREEN ITALICS = Non-stock/generic Pantera info (e.g., due to modifications to my car, car specific problems, etc.), or PBN personal info - i.e., wouldn't necessarily apply to another Pantera.

TEXT <u>**RED UNDERLINED</u>** = Questions/issues about items on this checklist need to resolve.</u>

General Checklist Notes:

Note A: The references reviewed/incorporated into this checklist (e.g., see "References" listing above) are the ones that would be applicable to stock 1973 Panteras, or all stock Panteras in general. Any potential reference sources that would generally not apply to a 1973 Pantera were not reviewed/incorporated, such as the Dash-1 ZF Transaxle Manual, Owners Manuals for a "pre-L" or GT5-S Pantera, 1971 Ford Car Shop Manual, PI Magazine article on electronic fuel injection, etc. However, if a reviewed/incorporated reference source contained any maintenance related info in it that specifically did not apply to a 1973 Pantera, or my Pantera as currently modified (e.g., I have electronic ignition instead of points), it was still included on this checklist for completeness, but with a note that it doesn't apply to a 1973 (or my specific) car or was placed in the "never" section as being not applicable (this will be useful if the car is remodified in the future, or to apply to a different Pantera, but apply to my car due to modifications (e.g., Holley carb owners manual info, Cibie Z-Beam Quartz headlight instructions info, Viper burglar alarm manual info, etc). See also the info in the "Key" section above about green italic text.

Note B: Source (e.g., reference) of each piece of info on this checklist is indicated in "[]" after the info. If there are multiple references dealing with the same entry, the references are generally listed in order from the most respected to the least respected (i.e., Manufacturer Publications like Ford OM, FTI, TSB, PSH, and Other Manufacturer Publications like ZF; then Pantera Clubs Official Publications like PITI, POTI, PI NL/MAG, POCA NL/MAG; then Other Sources like MECH, WEB, PBN). References to non-technical documents such as the P1 and POCA NL/MAGs and WEB are only included if their info is new or different from info contained in the official technical documents (i.e., Manufacturer publications and PITI/POTI) – e.g., if a PI Magazine article contains similar info to info already contained in a FTI then the PI Magazine is not included/referenced. See Note C below with respect to "duplicate" PITI's and POTIs. A handful of PITI's were inadvertently mis-numbered when originally published to have identical numbers to other PITI's (i.e., Group 11 Article #4, Group 26 Article #1, Group 35 Article #3). See Note H below with respect to "imbedded" source references.

Note C: Some PITI's (and one POTI) were essentially word for word duplicates of information contained in certain Ford Publications (i.e. FTI and PSH, and to a lesser extent the OM) that were created at a time when the general public didn't have access to the Ford publications. Since these contain no new/different information, the duplicated PITI and POTI articles are not listed in the indicated sources of info (see note B above) on this checklist to save space (references are made only to the official Ford publications instead). These "duplicate" PITI and POCA Articles are as follows (with the Ford publication they duplicate in parenthesis after it): PITI Group 10 Article #1 (FTI Group 10 Part 00); PITI Group 10 Article #7 (FSH Section 1); PITI Group 11 Article #5 (FTI Group 11 Part 02); PITI Group 11 Part 10); PITI Group 12 Article #6 (PSH Section VIII); PITI Group 13 Article #2 (PSH Section VIII); PITI Group 13 Article #1 (FTI Group 13 Article #1 (FTI Group 13 Part 01); PITI Group 13 Article #1 (FTI Group 13 Part 01); PITI Group 13 Article #1 (FTI Group 13 Part 01); PITI Group 13 Article #4 (FTI Group 13 Part 01); PITI Group 13 Article #1 (FTI Group 13 Part 01); PITI Group 13 Article #1 (FTI Group 13 Part 01); PITI Group 13 Article #1 (FTI Group 13 Part 01); PITI Group 13 Article #14 (FTI Group 13 Part 01); PITI Group 13 Article #14 (FTI Group 16 Part 02); PITI Group 16 Article #14 (FTI Group 16 Part 02); PITI Group 16 Article #14 (FTI Group 16 Part 02); PITI Group 16 Article #14 (FTI Group 16 Part 02); PITI Group 16 Article #14 (FTI Group 24 Part 2); PITI Group 24 Article #10 (FTI Group 24 Part 2); PITI Group 24 Article #10 (FTI Group 24 Part 2); PITI Group 24 Article #10 (FTI Group 24 Part 2); PITI Group 24 Part 2); PITI Group 24 Article #11 (FTI Group 24 Article #10 (FTI Group 24 Part 2); PITI Group 24 Article #11 (FTI Group 24 Part 2); PITI Group 24 Article #10 (FTI Group

21); PITI Group 26 Article #3 (FTI Group 26 Part 01); PITI Group 26 Article #4 (FTI Group 26 Part 22); PITI Group 27 Article #11 (PSH Section III); PITI Group 27 Article #15 (FTI Group 27 Part 01); PITI Group 27 Part 01); PITI Group 28 Parts 01 & 02); PITI Group 28 Article #4 (FTI Group 28 Part 02); PITI Group 31 Article #3 (FTI Group 31 Part 02); PITI Group 31 Part 40); PITI Group 31 Part 40); PITI Group 31 Part 40); PITI Group 32 Part 02); PITI Group 32 Part 02); PITI Group 31 Part 02); PITI Group 32 Part 02 & 40); PITI Group 32 Part 02 & 40); PITI Group 34 Article #4 (FTI Group 34 Part 30), but the PITI has some additional original material); PITI Group 35 Article #9 (FTI Group 35 Part 40); PITI Group 44 Part 01); PITI Group 44 Article #3 (FTI Group 45 Part 03); PITI Group 45 Part 04); PITI Group 53 Part 05); PITI Group 53 Part 05); PITI Group 53 Part 04); PITI Group 53 Part 04); PITI Group 53 Part 05); PITI Group 53 Part 05); PITI Group 53 Part 04)

Note D: This checklist only includes info contained in the listed references that directly deals with maintenance/inspection items, NOT other related information in those references such as how to "repair" or "overhaul" stuff (e.g., disassembly/assembly, removal/installation, troubleshooting/diagnosis, cleaning, etc) if the maintenance/inspection item determines something is not in proper working order. For example, info on how to replace the clutch master cylinder, how to rebuild/overhaul the distributor, or how to diagnose a malfunctioning crankcase ventilation system is not included. Exception: Those removal/installation and normal adjustment/cleaning/etc. operations that need or might be needed to be performed as part of the routine maintenance listed on this checklist are included (e.g., removing/installing spark plugs during the spark plug check, changing brake pads when they eventually wear out, removing wheels in order to repack the front wheel bearings, adjusting carburetor fuel mixture, etc.). Therefore, if the results of performing a maintenance/inspection item on this checklist reveals that a repair of some sort is needed, be aware that there are repair etc. related procedures/info in the above reference documents (as well as info/description of how the system/component works and what it consists of) that are not indicated on this checklist. No attempt was made to include any "repair" item references (i.e., things that don't get maintenance, but are just fixed when/if they break).

Note E: This checklist does not list/reference any "non-routine" maintenance/inspection (or checks/tests/cleaning/etc) type stuff contained in the listed references that is performed only as part of repair/overhaul/troubleshooting/testing/etc if problems are found during the performance of the main "routine" maintenance item (as per note D above).

Note F: The checklist attempts to list each maintenance operation in separate entries (rows), unless it is actually the same specific item phrased differently in different references, even though there may be other related entries dealing with the same system/component (i.e., several different maintenance/inspection items, even though they may be on the same specific component, are not consolidated into a single table entry – see notes 8 and 9). More than one maintenance operation is listed on a single entry only in those cases where they are very closely related and normally performed at the same time and don't warrant separate entries (which would contain largely redundant info), such as "washing the car" and "polishing the car". In those cases where then one maintenance/inspection column info is grouped by reference source since the references typically cover all the related sub-operations; Maintenance/Inspection column info is grouped by references source since the references typically cover all the related sub-operations; and the "Notes" column). In addition, the row entries in the "Materials/Specifications Info" and "Name Brand Parts/Products To Use" columns also have sub-headings to group and help quickly locate the various specs/parts info.

Note G: Asterisks (*) are used to refer to other info on the same ROW only, not elsewhere on the checklist.

Note H: The "imbedded" source documents attached at the end of the checklist (can be viewed/printed by double clicking on them), which are referenced in various places on this checklist, are for cases where it isn't practical to just reference them only (i.e., stuff not in the standard Pantera reference books listed in the "References" listing above that I normally keep in the car (i.e., FTI, OM, PITI, POTI, PSH, TSB, and ZF), and thus wouldn't be handy when performing maintenance), such as an entire web page on how to check for rust/corrosion (with diagrams), etc. The appropriate/needed imbedded documents should be printed out each time a printout of this checklist is made in preparation to do maintenance. Commonly available source documents not kept in the car (such as PI and POCA magazines and newsletters articles) are only imbedded in this checklist if they contain additional information not specifically included on this checklist needs to be replaced every 30,000 miles", or a part number, or a specification that must be met, etc) or background info not necessary for performing the source (so that the information on the checklist can be looked up/verified if desired), not "imbedded". Source documents that are not commonly available or that may become unavailable in the future (e.g., WEB info) are imbedded even if they don't contain any info not specifically included on this checklist, in order that the info on the checklist can be verified if desired.

Checklist Columns Notes:

Note 1: Priority codes are used to determine the most important entries to do at a given maintenance interval if time or money is limited. Priority code definitions are:

- HIGH = Failure to perform the maintenance operation could result in safety hazard or severe equipment damage (i.e., must do). Ex: Checking wiper blade condition or checking engine oil level;
- MEDIUM = Failure to perform the maintenance operation could result in loss of mobility/drivability of the car (i.e., should do). Ex: Check/replace spark plugs;
- LOW = Failure to perform the maintenance operation could result in nuisance problem (i.e., optional). Ex: Lubricate the window glass mechanism;
- VARIES = Entry involves multiple items that have different priority implications. Ex: Check electrical system.

Note 2: In order to reduce making duplicate or near duplicate entries whenever possible, and in view of hopefully indefinite lifetime/mileage limits, the frequency of maintenance entries is handled a little differently than those on typical maintenance lists (for instance the one in the owners manual) that show the maintenance by mileage milestones for a normal life expectancy of mileage/age on a car. The "5000 miles" section means to do that at EVERY 5000 miles interval on the odometer, not just the first 5000 miles. Similarly, the 10,000 mile entries are done everytime the mileage on the odometer is divisible by 10,000, and so on. Therefore, for instance if the odometer reads 65,000 miles, do all the 5000 miles stuff; when it reads 70,000 miles do all the 5000 AND 10,000 mile entries; when it reads 70,000 miles entries; when it reads 80,000 do all the 5000 not 15,000, and 20,000 mile entries; when it reads 80,000 do all the 5000 not 15,000 miles entries; when it reads 80,000 do all the 5000 miles on the soon.

Note 3: In those cases where the maintenance operation involves checking something at one interval and replacing it at another interval, in order to prevent having 2 almost identical entries, they are both listed at the earlier interval (e.g., 5000 miles) with a "*" note to do the other one at the longer interval (e.g., 10,000 miles), if both intervals were multiples of each other and thus the earlier item would be sure to be reviewed at either interval. However, there were a few cases where that couldn't be done, because the longer interval (e.g., 15,000 miles) wouldn't always be a multiple of the earlier interval (10,000 miles), and thus the earlier interval wouldn't necessarily get reviewed when the longer interval was due (e.g., it would if the odometer read 60,000 miles, but not when it read 75,000 miles) – in those cases separate entries were made in the different mileage sections.

Note 4: The mileage intervals listed on this checklist are normally the typical recommended mileage interval given in the references for that maintenance operation rounded UP to the nearest multiple of 5000 (4000 miles becomes 5000, 8000 becomes 10,000, 12,000 becomes 15,000, etc). This allows for easier tracking of when the maintenance operation is due via the odometer (will also have a mental trigger since will normally notice on the odometer when it turns over to a multiple of 5000, whereas a multiple of 4000 or 8000 desn't stand out). The references recommended intervals for each entry are listed directly below my personal one for that entry which is identified by my initials as the source. Rounding up a little is probably acceptable, since the manufacturer recommendations are likely somewhat conservative, and also since products today (oil, filters, etc) have probably been improved so that they last longer than they did in the 1970's. Along that same line, recommended intervals of 24,000 miles were rounded up to 30,000 (rather than 25,000), on the assumption that there is more leeway in performing the maintenance for a larger interval item than there would be for a 4000 mile recommendation item.

Note 5: In the cases where the references interval recommendations are for X miles or X months (e.g., 8000 miles or 8 months) whichever comes first, the checklist lists the maintenance operation item based on miles since I drive the car daily and am likely to put at least 10,000 miles on it a year and/or hit the mileage intervals before the monthly intervals. If change from using it as a daily driver or turn out not to drive it as much, treat the mileage interval sections as "months" instead (e.g., do the 5000 mile section entries every 5 months).

Note 6: Some recommended maintenance operation time intervals were rounded off (where it was judged to be acceptable from a maintenance risk standpoint), or picked where no recommended time interval was given, to coincide with the time interval for other existing maintenance operations to reduce the number of different maintenance intervals (e.g., recommendation to do something monthly listed in bi-monthly section instead).

Note 7: For those cases where various references give conflicting/different materials/specifications info (e.g., due to typo or other mistake, different opinions, changes/improvements to the info made over the years, different info for different model/year cars, etc.), the appropriate info to use for my car (i.e., latest/best info, info that applies to 1973 model year, etc.) is indicated in **bold** type.

Note 8: Name Brand Parts/Products to Use column entries are intended to be only for cases where I've determined what I feel is the "best" part/product to use (e.g., a specific brand of lube to use that exceeds the minimum requirements listed in the Materials/Specifications column, a car polish that independent tests have determined is the best one the market, a product I've used previously that gave good results, etc.). If the column is left blank, that means that I haven't determined the best product to use yet, and can use anything that looks like it will be acceptable.

Note 9: SYSTEM/COMPONENT info (in all capital letters in that column) is cross references to maintenance operation or inspection items that are on the same system or component, even if the operation/inspection itself is completely unrelated (used for sorting maintenance/inspection items by thing they're on). System/Component descriptions used are based on the standard Ford Group/Component Index Titles (e.g., as used in Ford Car Shop Manuals, FTI, etc) where possible (descriptions not based on the Ford Group/Component Index Titles list only a "system" without an associated component entry; e.g., "GARAGE" and "PAPERWORK"). The Checklist is sorted alphabetically by these within each frequency section.

Note 10: Checklist Entry Cross References (included in same column as system/component references discussed in Note F above, except listed in small letters), are cross references to other maintenance operations or inspection items that are related in some way besides just being on the same system or component (e.g., may be convenient to perform them at the same time).



List of Modifications Done To Pantera #5749 (double-click to open): (cha

(changes can affect performance of maintenance operations).

Previous Owner of Pantera #5749 Information (double-click to open): (Attachment Removed) (history of repairs/maintenance & modifications before me).

PRIORITY (See Note 1 above) and Who Does It (Check box when done)	Frequency (Calendar or Mileage or Special) (See Notes 2, 3, 4, 5 & 6 above)	Maintenance Operation or Inspection Item (i.e., WHAT to do)	Maintenance/Inspection Instructions (i.e., HOW to do) (Note: In addition see PSH and FTI as needed, per Note D)	Materials/Specifications Info (i.e., REQUIREMENTS must meet) (See Note 7 above) (Note: In addition see "Pantera Specifications" insert of PSH)	Name Brand Parts/Products to Use (See Note 8 above)	SYSTEM (COMPONENT) (see Note 9 above) and Checklist Entry Cross References (see Note 10 above)	Notes
	Calendar						
	Bi-Monthly						

LOW [PBN]	Bi-Monthly (Jan. Mar	Check side view mirrors (especially				AUXILIARY EOUIPMENT	Note: If/once TEMP item is
	May, Jul, Sep, Nov) [PBN]	passengers) to be sure still glued on				(MIRRORS)	permanently
PBN does	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	tight [PBN – TEMP].					repaired/replaced, delete its
						Related Up-Keep of	entry off this
						Bodywork (Removing Stains,	checklist/listing (and any
						Washing the Car, Polishing	TEMP cross references to
						the Car) entry below [PBN].	this listing), but be sure any
							useful info/references is
							also on this checklist
							elsewhere before delete it
							off this entry [PBN].
							Note: Previous owner
							renlaced drivers side view
							mirror with a different
							design, and added a
							passenger side view mirror
							(I replaced both with
							different design) [PBN].
							Notes Duisses side and 's
							Note: Drivers side won't
							gain I proviously tried to
							take it completely off when
							it first came loose and
							couldn't do it (easily).
							Passenger side, while
							didn't come loose, may not
							be glued on as well since I
							didn't take it off to fix
							original glue job [PBN].
							If mirror falls off or comes
							nouse, clean up the millor
							nounting surjuce vener and rough up the glass on the
							window with some 400 grit
							sandpaper and reglue using
							JB Weld [PBN - WEB].
LOW [PBN].	Bi-Monthly (Jan, Mar,	Replenish Windshield Washer Bottle	See OM page 25 "Windshield Wiper and	Windshield Washer Fluid:	Windshield Washer	AUXILIARY EQUIPMENT	
	May, Jul, Sep, Nov) [PBN]	Fluid Level, and Adjust Nozzle Aim	Washer" [OM].	Water and the recommended	Fluid:	(WINDSHIELD WASHER)	
PBN does		[OM page 25].		proportion of Ford Windshield	"Bug Juice" by		
			See F11 page 53-04-01 "Check Radiator	Washer Solution [FTI].	TurtleWax [PBN –	Related Cleaning the	
		Check Windshield Washer Reservoir	and windshield Washer Reservoir"	Windshield Western Dettle I	need to research	windows entry below [PBN].	
		(fluid container) [F 11].	[F11].	Fill the water bottle [OM page 25]	though to see II best]		

UICU	Di Monthly (Ion Mor	Charlet ** ***Coolant Lavel [OM page	Saa OM page 14 "Prior to Starting**"	Cooling System Consoity:	Coolent Additive:	COOLING SYSTEM	*Note: Check applant loval
	May Jul San May [DDN]	14 TSD Dullatin 5 Article #281	IOMI	6 2/8 Collors [OM ross 72]	"Watar Wattar" hu	(CENERAL)	and fill averagion tank bi
[PDN].	May, Jul, Sep, Nov) [PBN].	14, 15B Bulletin 5 Afticle #28],	[OM].	6 5/8 Gallolis [OW page 72],	water wetter by	(GENERAL)	and fin expansion tank bi-
		Keep System Full of Coolant and Free		25 ½ Quarts [PSH Specs Section].	Redline [WEB -		monthly, Check coolant
PBN does	[OM = check level prior to	of Air [PITI Group 27 Article #2];	See FTI page 53-04-01 "Check Radiator		Attachment 8	Related Check Coolant	condition at 15,000 miles,
	starting – page 14];	Check Radiator Reservoir [FTI].	and Windshield Washer Reservoir**"	Coolant Fluid:	"Pantera Cooling	Condition at 15,000 miles,	Replace at 30,000 miles or
	[TSB = 4000 miles (check		[FTI].	40% Antifreeze - 60% Water (Use	System (The	Replace Coolant at 30,000	at least bi-yearly (see
	coolant level) - Bulletin 5			only permanent-type coolant that	Coolant)"].	miles entry in 15,000 Miles	separate entries) [PBN].
	Article #281.	Check supply tank** and keep it filled.	See PITI Group 27 Article #1 "Cooling	meets Ford Specification ESE-M-	/ 1	section [PBN].	1 / 1
		check expansion/recovery tank and	System Expansion Tank Relocation -	97 B18-C. Do Not use Alcohol or		and the spectrum of the spectr	**Note: The procedure for
	[TSB = Supply tank**	maintain half filled [TSB Bulletin 8	Now You See It!" PITL Group 27	Methanol anti-freeze or attempt to		Related Replace Coolant at	checking coolant level was
	should be checked daily	Article # 61]	Article #2 "The Pantera Cooling	mix them with the factory coolant)		least hi-yearly entry in Bi-	changed (check expansion
	avpansion/racovary tank		System" [DITI]	[OM page 72]:		Varly saction [PDN]	tank lavel with anging
	mand only be sheeled avery	Choole Coolont Loval (averagion tank	System [F111].	[OW page 72], Solution of 50% water and Ford		rearry section [FBN].	and instead of supply toply
	need only be checked every	Check Coolant Level (expansion tank		Solution of 50% water and Fold			cold, instead of suppry tank
	2000-2500 miles - Bulletin	should be maintained at a nair filled	See 15B Bulletin 2 Article #11	Antificeze [F11 page 53-04-01];			level, maintain expansion
	2 Article #11;	level) [18B Bulletin 11 Article #96];	Checking Coolant Levels*** , Bulletin	Ford Cooling System Fluid and			tank level about half filled
	Check supply tank**	Completely Fill The Expansion Tank**	2 Article #13 "Cooling System	water [F11 page 52-00-02];			at all times) – TSB Bulletin
	regularly and keep it filled	***[OM page 14].	Characteristics", Bulletin 11 Article #96	Permanent antifreeze and water			2 Article 11 and some
	at all times, check		"Checking Coolant Levels – Expansion	mixture [FTI page 27-01-03];			OM's are WRONG with
	expansion/recovery tank	Manual Bleeding of Radiator is required	Tank" [TSB].	50-50 mixture of antifreeze and			respect to this procedure
	every 2000/2500 miles -	[POTI Group 27 "The Pantera Cooling		water (at least 50% antifreeze, good			(repeated removal of the
	Bulletin 8 Article # 61].	System, Faults, and Fixes"].	See Attachment 1 "Coolant Changing	idea to put in about 60% antifreeze)			supply tank pressure cap
	-		Email", and Attachment 8 "Pantera	[PITI Group 27 Article #2];			may destroy its sealing
	OM = completely fill		Cooling System (Coolant Tanks)" for	Coolant mixture of approximately			capabilities, coolant level
	expansion tank every		levels of tanks [WEB].	50-50 water and ethylene glycol			should be checked at the
	2000/2500 miles – page		le feis er talles [(† 115].	(antifreeze) [TSB Bulletin 2 Article			expansion tank and not the
	14]·		ADD "WATER WETTER" COOLANT	# 13 Bulletin 8 Article $#$ 61]:			supply tank) [TSB Bulletin
	[PITI = Check expansion		ADDITIVE [WEP_Attachmont 9	Soo Attachment & "Pentere Cooling			11 Article #06 DITL Group
	tonk lovel periodically l		ADDITIVE [WEB - Attachment o	System (The Coolert)" [WED]			27 Articles #1 & 21
	tank level periodically],		Pantera Cooling System (The	System (The Coolant) [WEB].			2/ Afficies #1 & 2].
	[1SB = Expansion tank]		Coolant)].	(need to determine which is best			****
	should be maintained at a			value to use, and bold it)			***Note: I keep a flexible
	half filled level at all times						dipstick (rubber hose) for
	 Bulletin 11 Article #96]. 			Checking Level**:			checking coolant level in
				Check radiator coolant level with			expansion tank, and special
	[POTI = Periodic (manual			engine cold [OM page 14, FTI page			long/flexible funnel for
	bleeding of radiator) -			53-04-01, TSB Bulletin 2 Article			putting coolant in
	POTI Group 27 "The			#11, Bulletin 8 Article # 61];			expansion tank, in front
	Pantera Cooling System,			Check Level in Expansion Tank			trunk [PBN].
	Faults and Fixes"]			Using flexible dipstick*** [PIT]			. ,
				Group 27 Article #21			Note: I keep gallon of
				- · · F · · · · J.			premixed 50-50
				Coolant Tanks Level			water/antifreeze (to use to
				Top up the supply tank and partially			top off coolant pariodically)
				fill the expension tank [DSH page			in ganage [PPN]
				121.			in guruge [1 Divj.
				13]; V			
				Keep supply tank *** filled at all			
				times and maintain			
				expansion/recovery tank half filled			
				[TSB Bulletin 2 Article #11];			
				Feed tank must always be			
				completely full [OM page 14];			
				Expansion tank should be			
				maintained at a half filled level at			
				all times [TSB Bulletin 11 Article			
				#96].			

HIGH	Bi-Monthly (Jan, Mar,	Check Motor Oil Level [OM pages 14,	See OM page 36 "Motor Oil Level	Oil Pan Capacity**:	Oil:	ENGINE (GENERAL)	*Note: Dipstick's
[PBN].	May, Jul, Sep, Nov) [PBN].	36];	Control" [OM].	5 Quarts (Oil Sump and Filter)	5W-30 Synthetic		manufactured marks are
DDN J	IOM - anian to starting	Check Engine Oil Level [FTI].	Con ETL and 52 01 02 "Charle Engine	[OM page 72];	(Mobil 1 Tri-	Related Oil & Filter Change	apparently off some (see
PBN does	[OM = prior to starting - page 14]		See F11 page 53-01-02 "Check Engine	5 U.S. Quarts (includes 1 quart with filter replacement) [ETI page 21	WEP Attachmont	IDDNI	PROP Powertrain Item 4)
	page 14].		on Lever [F11].	22-29]·	11 "Engine Oil	[I DN].	previous owner's upper
				Will hold 6 quarts [PITI Group 27	Choices"].		scratched mark is measured
				Article #2];	-		5 quarts level, with lower
				6 Quarts (plus an extra $1/2$ or so			scratched mark scaled to
				quarts for a new stock filter) for			match manufactured range
				normal driving [WEB - Attachment			[FDN].
				18 "Sunday Oil Change"].			Note: Car will "burn"
							(lubricating cylinder walls,
				Oil:			etc.) some oil (about 1 quart
				SAE 20W/50 API MS (Temp > 0			every 5000 miles is
				deg C), SAE 10W40 API MS			normal), therefore having to
				(1 emp < 0 deg C) [OW page 72], Recommended motor oil (see			changes doesn't mean
				Specifications "Engine Lubricant:			there's a "leak" [MECH].
				Multi Viscosity Oil, and Single			· · · · · · · · · · · · · · · · · · ·
				Viscosity Oil" on FTI page 53-01-			**Note: Mobil apparently
				03) [FTI]; Tan mality 20,50 mainte ail shares			changed the
				10p quality 20-50 weight oil above			in 2002 to "Mobil 1 Fully
				10-40 below 40 degrees (consistent			Synthetic Motor Oil with
				sub-zero temperatures would			SuperSyn Anti-Wear
				require a lighter oil) – don't use			Technology" (5W-30
				single weight oil at all [PITI Group			Newer Vehicle Formula)
				27 Article #2].			[PBN].
				Oil Level:			
				Never allow oil to be under the			
				filling up never exceed the			
				maximum level (SAFE) [OM page			
				36];			
				Do not add oil past the full mark,			
				never allow the oil level to fall			
				below the add mark [F11 page 53-			
				Use the previous owner's hand			
				scratched marks scale on oil			
				dipstick, not the manufactured*			
LOW [PBN].	Bi-Monthly (Jan. Mar.	Check to be sure hose that connects		marks [PBN].		FUEL SYSTEM (AIR	Note: If/once TEMP item is
].	May, Jul, Sep, Nov) [PBN].	from oil fill line to underside of air				CLEANER AND FILTER)	permanently
PBN does		cleaner hasn't become disconnected at					repaired/replaced, delete its
		air cleaner connection [PBN-TEMP].				(what is this hose – a vacuum	entry off this
						hose or something – find out	TEMP cross references to
						appropriate)	this listing), but be sure any
							useful info/references is
							also on this checklist
							elsewhere before delete it
							off this entry [PBN].
							Note: Need to find a way to
							secure this hose connection
							permanently [PBN].
							Note: Previous owner
							replaced the original air
							cleaner with one that would
							JII with the Edelbrock Torker manifold when he
							changed carburetor and
							intake manifold (I replaced
							that one with an
							aftermarket Pantera script
							air cleaner) [PBN].

VARIES	Bi-Monthly (Jan Mar	Check Garage Floor for Indications of			GARAGE	
[PRN]	May Jul Sen Nov) [PRN]	Fluid Leaks from car [PBN]			o. nu lob	
[PBN]. PBN does	May, Jul, Šep, Nov) [PBN]. Bi-Monthly (Jan. Mar.	Fluid Leaks from car [PBN].	See Lift-Master Garage Door Opener	Limit and Force Adjustments**:	Related Check for Water/Oil/Fuel Leaks car visual inspection entry in 10,000 Miles section [PBN]. Related Check Shock Absorber Leak entry in 5000 Miles section [PBN - TEMP]. Related Clean/Degrease Engine and Transaxle entry in Yearly section [PBN]. GARAGE	*Note: Weather conditions
LOW [PBN]. PBN does	BI-Monthly (Jan, Mar, May, Jul, Sep, Nov) [PBN]. [Lift-Master Garage Door Opener Owner's Manual = Once a Month – page 27].	Manually Operate Garage Door (to see if it is unbalanced or binding), Check to be Sure Door Opens & Closes Fully (adjust* ** limits and/or force if necessary), Repeat the Safety Reverse Test (make any necessary adjustments**) [Lift-Master Garage Door Opener Owner's Manual – page 27]. Check the PVC Pipe Covering Door Torsion Spring (I added it to protect car in case spring breaks) to be sure still covering spring correctly – it sometimes slides off sideways some thru door use [PBN]. Check to be sure Garage Door Opener (overhead) Light Bulb(s) not burnt out (replace as needed) [PBN].	See Lift-Master Garage Door Opener Owner's Manual pages 24 "Adjustment Step 1 (Adjust the UP and DOWN Limits)", 25 "Adjustment Step 2 (Adjust the Force)", 26 "Adjustment Step 4 (Test the Safety Reverse System)", 27 "Limit and force adjustment controls" [Lift-Master Garage Door Opener Owner's Manual].	Limit and Force Adjustments**: See Lift-Master Garage Door Opener Owner's Manual pages 24, 25 & 27 (only a screwdriver is required) [Lift-Master Garage Door Opener Owner's Manual].	GARAGE Related Check Garage Door Opener Chain Tension entry in Semi-Yearly section [PBN]. Related Lubricate all Moving Parts of the Garage Door entry in Yearly section [PBN]. Related Check Garage Door Hardware entry in Yearly section [PBN].	 *Note: Weather conditions may cause some minor changes in door operation requiring some re- adjustments, particularly during the first year of operation [Lift-Master Garage Door Opener Owner's Manual – page 27]. **Note: Repeat the safety reverse test after any adjustments of limits or force [Lift-Master Garage Door Opener Owner's Manual – page 27].
LOW [PBN].	Bi-Monthly (Jan, Mar, May, Jul, Sep, Nov) [PBN].	Verify Garage Dehumidifier is still on [PBN].			GARAGE	Note: Ebac dehumidifier turns off if garage power
PBN does		Check garage wall mounted humidity gauge to verify dehumidifier is working properly (replace gauge's battery when needed) [PBN].			Related Perform Routine Maintenance on Garage Dehumidifier entry in Semi- Yearly section [PBN].	goes out briefly, and must be manually turned back on [PBN].

LOW [PBN].	Bi-Monthly* (Jan, Mar**,	Up-Keep of Interior (cleaning) [OM	See OM page 42 "Interior" [OM].	Cleaning Interior:	Vinyl/UV	INTERIOR TRIM	*Note: 303 Aerospace
	May, Jul, Sep**, Nov)	page 42];		Vacuum cleaner, ammonia on cloth	Cleaning/Protectant	(GENERAL)	Protectant says to use every
PBN does	[PBN].	Remove Dust and Loose Dirt from the	See FTI page 45-03-01 "Trim Panels	and vaseline (for greasy stains on	:		3-5 weeks for maximum
		upholstery, trim, and floor covering;	(General Information - Cleaning) [FTI].	upholstery), trichloroethylene or	303 Aerospace		protection [PBN].
	[OM = Periodically – page	Wipe Vinyl plastic surfaces clean [FTI		soft soap solution (for mattings)	Protectant* (303		
	42];	page 45-03-01].	See TSB Bulletin 6 Article # 40	[OM page 42];	Products Inc. Stock		**Note: Get car "Detailed"
	[FTI = Frequently		"Chalking - Door Trim Panels and/or	Damp cloth (vinyl plastic surfaces)	#30340)		twice a year (see separate
	(cleaning) - page 45-03-	PUT VINYL/UV PROTECTANT***	Seat Cover Material" [TSB].	[FTI page 45-03-01];	[PBN/WEB].		Up-Keep of Bodywork
	01].	ON ALL INTERIOR VINYL		Do not allow gasoline or solvent to			(Removing Stains, Washing
		SURFACES [PBN].		come into contact with the	Steering Wheel		the Car, Polishing the Car)
	[FTI = Premature			weatherstrips or other bodyshell	Leather		entry and Cleaning the
	"Chalking" of the door trim	PUT LEATHER		rubber seals [OM page 42].	Conditioner/Protect		Windows entry and
	panels and/or seat cover	CONDITIONER/PROTECTANT ON			ant:		Cleaning the Wheels entry
	material - page 45-03-01].	STEERING WHEEL RIM [PBN].		Correct "chalking" of the door trim	Lexol Original		below too). WARN
				panels and/or seat cover material:	Formula Leather		DETAILER ABOUT THE
	[PPQR = Premature	Correct this condition ("Chalking" of the		Apply light coat of Vaseline with a	Conditioner		LIGHTLY GLUED ON
	"chalking" of the door trim	door trim panels and/or seat cover		soft cloth [FTI page 45-03-01, TSB	Preservative [PBN].		"PANTERA" SCRIPT
	panels and/or seat cover	material) [FTI page 45-03-01, TSB		Bulletin 6 Article # 40, PPQR Body	(need to determine		OVER GLOVE
	material – Body item 12].	Bulletin 6 Article # 40, PPQR Body item		item 12].	if this is best stuff)		COMPARTMENT, AND
		12].					NOT TO BREAK THE
					Interior Silver Trim		"ANTENNA WIRE"
		Touch up*** silver trim paint on interior			Touch Up:		RUNNING ALONG THE
		HVAC vents and heater controls panel,			Pen-touch Silver		WINDSHIELD (see also
		etc. if needed [PBN].			fine point		detailer warning note in
					permanent metallic		"Up-Keep of Bodywork"
		Repair/replace any interior chrome			ink pen [PBN/WEB		entry below) [PBN].
		(gauge bezels, switches, shifter arm and			 See Attachment 		
		gate and bolts, ashtray trim, etc.) that is			12 "Detailing Your		***Note: Do any silver trim
		damaged, flaking off, fading, etc. [PBN].			Pantera"].		paint touch ups at least a
							day before putting
							vinyl/UV protectant on so
							can dry properly [PBN].

LOW [PBN]. PBN does,	Bi-Monthly** (Jan, Mar*, May, Jul, Sep*, Nov) [PBN].	Up-Keep of Bodywork (Removing Stains, Washing the Car, Polishing the Car) [OM pages 40, 41].	See OM Pages 40 "Up-Keep of Bodywork" & "Removing Stains", 41 "Washing the Car" & "Polishing the	Removing Stains: Good quality commercial preparations [OM page 40].	Car Polish: 3M One Step Cleaner Wax	TOPS AND EXTERIOR FINISHES (GENERAL)	*Note: Get car "Detailed" twice a year (see separate Up-Keep of Interior
except detailing	[OM = Regular Intervals	Wash the Car [FT] page 46-01-01]	Car" [OM].	Washing:	#39006 [PBN/WEB	Related Check/Repaint Car	(cleaning) entry above and Cleaning the Windows
ueiuiing	(Up-Keep of bodywork) –		See FTI page 46-01-01 "Exterior Finish	Liberal supply of water at low	Consumer Reports	[PBN].	entry and Cleaning the
	page 40].	Polish the Paint [F11 page 46-01-01].	Washing, Polishing, Chrome and Bright	car shampoo highly diluted (using	Ratings 5/00"].	Related Check Side View	WARN DETAILER
	page 40]. [OM = ASAP (eliminating stains and foreign particles such as tar spots, oil patches, insect splatter, etc.) – page 40]; [FTI (Wash the Car) = Often; ASAP if tree sap, insect or other sprays, road salt, industrial fallout, tar, or anything similar is on the car; Often when conditions exist such as salt air near coastlines, factory smoke and other conditions found in today's cities can cause corrosion to chrome plated or anodized aluminum finishes - page 46-01-01]. [OM = Once or Twice a Year (polishing) – page 41]; [FTI (Polishing) = Once or Twice a Year – page 46-01-01].	Polish the Paint [FTI page 46-01-01]. Clean Chrome*** ****Tailpipe Tips [PBN].	General Service (General Information – Washing, Polishing, Chrome and Bright Metal Care) [FTI].	pressure, solution of water and soft car shampoo highly diluted (using sponge), and chamois leather (drying) [OM page 41]; Use Ford Multi-Purpose Cleaner, followed by a rinse with clean cold water (Do not wash car with hot water, or while the sheet metal is hot, never wipe dirt from dry painted surfaces, do not use strong soaps or detergents, do not allow cleaner to dry on the car) [FTI page 46-01-01]; Never wash car in direct sunlight, never wipe dry dusty surfaces [OM page 41]. Polishing: Good quality synthetic paint car polish [OM page 41]; Ford Brand Polish [FTI page 46-01- 01]. Chrome and Bright Metal Care: Use Ford Bright Metal Cleaner (on all chrome-plated and anodized aluminum parts) [FTI page 46-01- 01].	"Auto Polishes Ratings 5/00"]. (Is Zaino Brother's <u>stuff better? – see</u> <u>Attachment 9c</u>) Removing Stains: "Bug & Tar and Tree Sap Remover" by TurtleWax [PBN – need to research though to see if best].	Related Check Side View Mirrors to be sure Glued on Tight entry above [PBN – TEMP]. Related Cleaning the Windows entry below [PBN]. Related Cleaning Wheels and Tires entry below [PBN].	Wheels entry below too). WARN DETAILER ABOUT THE LIGHTLY GLUED ON SIDE MIRRORS, AND NOT TO RINSE/SPRAY CAR WITH WATER WHICH CAN CAUSE RUSTING (see also detailer warning note in "Up-Keep of Interior" entry above) [PBN]. **Note: Even the most durable of car waxes only lasted about 2 months in normal use [WEB - Attachment 9a Consumer Reports "Auto Polishes 5/00"]. Note: Don't have car "pressure washed", or if do be sure don't direct the blast directly at the rear upright bearing areas (can blow water past the seals and lead to rusted bearings)
							[PBN – WEB]. Note: I installed the Vader headlight modification [PBN].
							***Note: The exhaust chrome extensions are corroding in service. Ghia engineering have released a separate chrome extension which will slip over the muffler outlet [PPQR Chassis item 8].
							**** Note: Previous owner replaced original exhaust system (headers, manifolds, tailpipes and mufflers) with "Mind-Train Enterprises "Big Throats" Exhaust System" [PBN].

LOW [PBN]. PBN does, except detailing	Bi-Monthly (Jan, Mar*, May, Jul, Sep*, Nov) [PBN].	Clean Wheels and Tires [PBN].	Use tire blackening stuff on tires [PBN].	Magnesium Wheel Paint: Argent silver (Ditzler Part No. DX 8555) [TSB Bulletin 11 Article #92].	Wheel Cleaner: Castrol Super Clean Spray & Rinse All Wheel Cleaner** [PBN – need to research though to see if best]. Tire Black: Meguiar's Gold Class Endurance High Gloss Long Lasting Tire Protectant Gel [PBN/WEB – Attachment 9c].	WHEELS AND TIRES (GENERAL) Related Up-Keep of Bodywork (Removing Stains, Washing the Car, Polishing the Car) entry above [PBN]. Related Check Tire Inflation Pressure entry below [PBN]. Related Inspect Wheels and Tires entry in 5000 Miles section [PBN].	*Note: Get car "Detailed" twice a year (see separate Up-Keep of Bodywork (Removing Stains, Washing the Car, Polishing the Car) entry (and its detailer warning note) and Up-Keep of Interior (cleaning) entry (and its detailer warning note) above and Cleaning the Windows entry below too) [PBN]. **Note: Is safe to use on mag wheels [Castrol Super Clean Spray & Rinse All Wheel Cleaner instructions].
MEDIUM [PBN]. PBN does	Bi-Monthly (Jan, Mar, May, Jul, Sep, Nov) [PBN]. [OM = Frequently – page 55, prior to starting – page 14].	Check Tire (air) Inflation Pressure [OM pages 14, 55].	See OM page 55 "Wheels and Tires" [OM].	Inflation Pressure Front Tires: 28* psi [OM page 55, TSB Bulletin 2 Article # 10]; 28 psi (cold inflation pressure) [Sticker on door jam]; 28 pounds (Michelin or Pirelli tires) [PSH page 30]; See PITI Group 11 Article #4 "Pantera Detomaso L & GTS Optional Fitment & Setting" [PITI]. Inflation Pressure Rear Tires: 26* psi [OM page 55, TSB Bulletin 2 Article # 10]; 26 psi (cold inflation pressure) [Sticker on door jam]; 26 pounds (Michelin or Pirelli tires) [PSH page 30]; See PITI Group 11 Article #4 "Pantera Detomaso L & GTS Optional Fitment & Setting" [PITI]. Checking Inflation: Tire inflation pressure should be checked with cold tires only [OM page 55].		WHEELS AND TIRES (TIRES) Related Tire and Wheel condition/ balance check entry in 5000 Miles section [PBN]. Related Clean Wheels and Tires entry above [PBN].	*Note: For consistent maximum speed driving (turnpike cruising) increase the above pressure ratings by 5 psi [OM page 55].

LOW [PBN]. PBN does, except detailing	Bi-Monthly (Jan, Mar*, May, Jul, Sep*, Nov) [PBN]. [OM = Regular Intervals (Up-Keep of bodywork) – page 40].	Up-Keep of Bodywork (Cleaning the Windows) [OM page 41].	See OM Page 41 "Cleaning the Windows" [OM]. See FTI page 43-01-01 "Door, Windshield, and Rear Window Glass (General Information - Cleaning and Inspection)" [FTI]. Use car wax on all exterior glass (see Attachment 7 "Windshield Cleaning") [WEB]. PUT RAIN-X** ON EXTERIOR GLASS AND FOG LIGHTS AND HEADLIGHTS [PBN – Rain-X Instructions]. PUT RAIN-X ANTI-FOG ON INTERIOR GLASS (WINDSHIELD, SIDE AND REAR WINDOWS, REARVIEW**** MIRROR) [PBN – Rain-X Instructions].	Cleaning Windows: Windshield washing liquid, and very soft damp cloth or chamois leather [OM page 41]; Use only liquid cleaning solvent (do not use steel wool or abrasives, or the glass will be damaged) [FTI page 43-01-01]. Applying Invisible Glass: See instructions on can (NOT recommended for clear plastics***, or surfaces that could be damaged by water or solvents). Discard if not used by "USE BY month/year" date on bottom of can [PBN – Invisible Glass Instructions]. Applying Rain-X and Rain-X Anti- Fog: See instructions on bottle (do NOT use on plastics, painted surfaces, non-clear surfaces, surfaces treated with anti-reflective, scratch resistant, or other coatings [PBN – Rain-X and Rain-X Anti-Fog instructions]. Applying Bar Keepers Friend Cleanser & Polish: See instructions on can [PBN].	Window Glass Cleaning: "Invisible Glass" by Stoner [PBN/WEB – Attachments 12 "Detailing Your Pantera", 13 "Invisible Glass"]. Window Glass Road Film Removal: Bar Keepers Friend Cleanser & Polish (has no abrasives) [PBN – TV Car Show]. Exterior Glass Treatment: Rain-X (PBN]. Interior Glass Treatment: Rain-X Anti-Fog [PBN - TV Car Show].	WINDOW GLASS (GENERAL) Related Windshield Washer Reservoir entry above [PBN]. Related Up-Keep of Bodywork (Removing Stains, Washing the Car, Polishing the Car) entry above [PBN].	Note: Previous owner replaced original windshield glass due to damage from a stone [PBN]. *Note: Get car "Detailed" twice a year (see separate Up-Keep of Bodywork (Removing Stains, Washing the Car, Polishing the Car) entry (and its detailer warning note) above and Up-Keep of Interior (cleaning) entry (and its detailer warning note) and Cleaning the Wheels entry above too) [PBN]. **Note: Rain-X seals glass and repels rain, sleet and snow on contact (rain drops bead up and are blown away by windflow improving visibility and safety), and allows for easy removal of frost, ice, salt, mud, and bugs [PBN – Rain-X Instructions]. ***Note: MY RADIO FACEPLATE AND ARMREST CLOCK GAUGE HAVE PLASTIC THAT INVISIBLE GLASS CAUSES TO HAZE (can use clear coat safe car cleaner wax/paint scratch remover to remove haze) [PBN – Invisible Glass Technician]. ****Note: I replaced inside rearview mirror with alcottin exterdimeter
							rearview mirror with electric auto-dimming
	Semi Vearly						mirror [PBN].
LOW [PBN]. PBN does	Semi-Yearly (March, November) [PBN].	Perform Routine Maintenance on Garage Dehumidifier to ensure continued full efficiency (Clean* the surface of the evaporator and condenser coils, Check* that the fan** is firmly secured to the motor shaft and that the fan rotates freely, Check the refrigerant charge, Check* all wiring connections, Inspect* the drain tray for water stoppage (if accumulation is excessive, check the drain pipe for blockage), Check* the operation of the defrost system) [Ebac Model CD30 Industrial Dehumidifier Owner's Manual – page 5].		Cleaning Surface of Evaporator and Condenser Coils: Use compressed air, or vacuum clean the coils (do NOT steam clean refrigeration coils) [Ebac Model CD30 Industrial Dehumidifier Owner's Manual]. Checking Refrigerant Charge: Frosting of only the front coils or less, accompanied by frosting of the thin capillary tube, indicates a loss of refrigerant or low charge [Ebac Model CD30 Industrial Dehumidifier Owner's Manual].		GARAGE Related Check that Dehumidifier is still on entry in Bi-Monthly Section [PBN].	Note: Dehumidifier won't work below 33 degrees F [Ebac Model CD30 Industrial Dehumidifier Owner's Manual]. *Note: Ensure that the power cord to the machine has been disconnected before carrying out this maintenance [Ebac Model CD30 Industrial Dehumidifier Owner's Manual]. **Note: The fan motor is sealed for life and therefore does not need oiling [Ebac Model CD30 Industrial Dehumidifier Owner's Manual].

LOW [PBN]. PBN does LOW [PBN]. PBN does	Semi-Yearly (March, November) [PBN]. [Clopay Installation & Maintenance Steel Residential Garage Door Instructions = At least twice a year – page 32]. Semi-Yearly (March, November) [PBN]. [Lift-Master Garage Door Opener Owner's Manual = Twice a Year – page 27].	Clean* the Garage Door [Clopay Installation & Maintenance Steel Residential Garage Door Instructions – page 32]. Check* Garage Door Opener Chain Tension (adjust if necessary) [Lift- Master Garage Door Opener Owner's Manual – page 27].	See Clopay Installation & Maintenance Steel Residential Garage Door Instructions page 32 "Cleaning the Door" [Clopay Installation & Maintenance Steel Residential Garage Door Instructions]. See Lift-Master Garage Door Opener Owner's Manual page 7 "Assembly Step 3 (Tighten the Chain)" [Lift-Master Garage Door Opener Owner's Manual].	Cleaning Door: Wipe down with a mild household detergent and rinse with clear water [Clopay Installation & Maintenance Steel Residential Garage Door Instructions – page 32].	GARAGE GARAGE Related Manually Operate Garage Door entry in Bi- Monthly section [PBN]. Related Lubricate all Moving Parts of the Garage Door entry in Yearly section [PBN]. Related Check Garage Door	*Note: Clean in order to prevent damage (rusting) caused by foreign matter adhering to the door [Clopay Installation & Maintenance Steel Residential Garage Door Instructions – page 32]. *Note: During future maintenance, ALWAYS pull the manual release handle to disconnect trolley before adjusting chain; Disconnect trolley first [Lift-Master Garage Door Opener Owner's Manual – pages 7 & 27].
					Hardware entry in Yearly	
LOW [PBN]. PBN does	Semi-Yearly (March, November) [PBN].	Take any stuff out of garage that's not supposed to be allowed to freeze* (in November), and put back in (in March): 3M Cleaner Wax, Castrol Wheel Cleaner, Ziebart Rust Protection Sealant (per Ziebart guy, not on can itself) [PBN].			section [PBN]. GARAGE	*Note: Don't keep gallon of distilled water (to use to top off coolant periodically) in garage since will freeze/burst in winter, and will dilute coolant's anti- freeze concentration. Keep gallon of premixed 50-50 water/antifreeze instead [PBN].
MEDIUM [PBN]. PBN does (via to-do calendar)	Semi-Yearly (June, December*) [PBN].	Car Insurance Renewal [PBN]. Pantera Appraisal* [PBN].	 *Tell appraiser any improvements I made over "stock" car (especially new ones since last appraisal) that enhance value (give him copy of my latest "Pantera5749Modifications" document) [PBN]. *Send new appraisal to insurance co. (include my latest "Pantera5749Modifications" document if not in appraisal itself) [PBN]. 		PAPERWORK	*Note: Must get Pantera appraised yearly to maintain comp/coll insurance (Appraiser: Jim XXXXX, 704-XXX-XXXX) [PBN]. Note: GEICO (800-841- 3000 customer service, or 800-555-9123 billing) policy # XXX-XX [PBN]. Note: This is also listed on my to-do Calendar [PBN].
LOW [PBN]	Yearly Vearly** (March) [PBN]	Inbricate Electric Air Horns*	See Hypersonic 22 G.T. Installation	Horns Compressor Lubricant:	AUXILIARY FOUIPMENT	* Note: Previous owner
LOW [PBN].	(Hypersonic 22 G.T. Installation Instructions = Lubricate each month – page 2].	Luoricate Electric Air Horns* Compressor [Hypersonic 22 G.T. Installation Instructions page 2].	See Hypersonic 22 G.I. Installation Instruction page 2 "Lubrication Instructions" [Hypersonic 22 G.T. Installation Instruction].	Froms Compressor Lubricant: Vaseline oil (one or two drops each month) [Hypersonic 22 G.T. Installation Instructions page 2].	AUXILIARY EQUIPMENT (HORNS) Related Horn item in DOT Annual Inspection Renewal below [PBN].	 vote: Previous owner augmented horn with Fiamm electric air horns (sound with the existing horns) [PBN]. **Note: Monthly seems much too frequent, especially since rarely use horn, and went unlubricated for years when bought car and still worked fine [PBN].
						Note: Air horns & compressor are in right front wheel well [MECH].

HIGH	Yearly (March) [PBN].	Wiper Blade Condition [PITI Group 52	See FTI page 43-01-01 "Door,		AUXILIARY EQUIPMENT	Note: 1974 models have
[PBN].		Article 1];	Windshield, and Rear Window Glass		(WINDSHIELD WIPER)	windshield wiper arms and
	[FTI = Blades do not	Inspect Windshield Wiper Blades for	(General Information - Cleaning and			blades that park in the
PBN does	properly clean windshield	good contact to the glass for clear	Inspection)" [FTI].		Related Windshield Wipers	opposite side [PPQR
(via Annual	after wiper blades and glass	wiping action [FTI page 43-01-01];			item in DOT Annual	Electrical item 5].
Inspection	have been properly cleaned	Replace Windshield Wiper Blade			Inspection Renewal below	
Renewal	(Item should be checked	Elements (if blades do no properly clean			[PBN].	
below)	periodically and service	windshield) [FTI page 52-00-01].				
	performed when required) -					
	page 52-00-01].					

LOW [DDN]	Vaarly (Marah) [DDN]	Underhady ** Drotection (mat and	See OM mage 42 "Underhedy Enroying"	Undersecting Protectants	Undersective*:	DODY SHELL AND	*Notes In 2000 I had duain
LOW [PBN].	Yearly (March) [PBN].	Underbody* ** Protection (rust and	See OM page 42 Underbody Spraying	Undercoating Protectant:	Undercoating*:	BODY SHELL AND	"Note: In 2000 I had arain
		corrosion) [OM page 42].	[OM].	Good quality commercially	Motorcraft (Ford)	EXTERIOR TRIM	holes drilled in
PBN Does	[OM = at least twice a year			available products [OM page 42];	Super Seal Anti-	(GENERAL)	underbody/frame (more
(with help as	at the beginning of winter	Inspect Structural Parts of the Pantera	See PITI Group 47 Article #3 "Rust!",	Best quality injection type system	Corrosion		holes drilled in 2002) and
needed)	and in the spring – page	Body for Corrosion [WEB - Attachment	Group 47 Article #4 "Fuel Tank	vou can find [PITI Group 47 Article	Compound:	Related General Exhaust	dust/dirt blown out and
	421	5 "Corrosion"]	Corrosion" Group 47 Article #7	#71	Ziebart Rust	System (Corrosion) Check in	applied OSPHO rust
	·=].	Check car for dirt/rust in areas indicated	"Bust!" Group 47 Article #8 "More On		Protection Sealant	30 000 Miles section [PBN]	protection chamical Later
	[DITI = noriodically	in DITL Crown 47 Article #15, romana as	Rust!" Crown 47 Article #12	Dady Sections Dust Inhibitor	Clear [DDN mood	50,000 Miles section [1 BN].	protection chemical. Later
	[PTIT – periodically,	III FITT Group 47 Article #15, Teniove as	Kust!, Gloup 47 Afficie #15	The sections Rust minibitor.	Clear [PBN – need		sprayed on undercoaling by
	especially after driving in	necessary [PI11];	"Restoration of a Pantera", Group 4/	Top Quality inhibiting Paint [PITI	to research though	Related Change Fuel Filter	Ford. I then had car
	rain or on salted roads	Check car for rust in areas indicated in	Article #15 "Detailed Look at Causes of	Group 47 Article #7].	to see which/what	(due to gas tank filler neck	completely rust protected
	(keep car clean and hose	PITI Group 47 Article #13 [PITI];	Rocker Panel Rust" [PITI].		is best].	rust**) entries in 5000 Miles	by Ziebart in 2001 –
	down the undercarriage,	Check rest of car for rust [PBN].		Treatment of Bottom of the Rear		section [PBN - TEMP].	shouldn't need to retreat,
	wheel-wells, etc.) - Group		See Attachment 4 "Maintenance and	Wheelhouses, the Length of Both	Rustproofing	1 3	except to patch up any
	47 Article #7: Periodic	Keep car clean and hose down the	Safety Inspections (Structural Body	Rocker Panels and Front	Sealant (Door	Related Check (repair/replace	underbody coating that gets
	(algoning and treatment of	undercorriage wheel wells at he sure	Corresion)" [WEP]:	Wheelwells Next to the Start of the	Hood and Dook	if needed) stuff normally	ahinnad off ata by stonas or
	hetters of the seen	drain halas and land alash [DITI Crosse	CONSIGN [WED],	De alem Den alem	Lid Commoly	den't have seen as a to	chipped off ele by siones of
	bottom of the rear	drain noies are kept clear. [P111 Group	SEE ATTACHMENT 5	Rocker Panels:	Lid Seams):	don t have easy access to	whatever, and they
	wheelhouses, the length of	4 / Article # /];	"CORROSION" [WEB].	Rust-O-Leum or similar spraypaints	Ziebart Rust	(inspect for rusting	suggested I respray bottom
	both rocker panels, and	Inspect the rocker panel/quarter panel lip		or 3M rubberized undercoat [PIT]	Protection Sealant –	components/areas, check the	inside edges of doors yearly
	front wheelwells next to the	underneath the gas tank, and the similar	Take to a place with a lift so can look at	Group 47 Article #13].	Clear [PBN – need	pressure and overflow	(however, I may want to
	start of the rocker panels) -	lip on the right side of the car between	underside - if any rust areas or places		to research though	coolant tanks for internal	bring it back in a few years
	Group 47 Article #131:	the right rear wheel opening and the	where undercoating is chipped off clean	Cleaning/Filling Rocker/Quarter	to see if best].	rust, inspect gas tank, etc) in	for a "check up") [PBN-
	[FTI = Improper water	passenger door for trapped dirt and	and spray with rust inhibitor and then	Panel Lin		Whenever Engine Removed	Ziebart Guvl
	drainage from body is	moisture that will cause rust (clean as	with underbody coating stuff [PRN]	Vacuum cleaner Pheno-Seal and	Rust Inhibitor:	section [PBN]	
	suspected (Item (body drain	nooscary) [DITL Group 47 Article #9]	with underbody coating stuff [F DIV].	Tayaaa Bustmaafing Compand	Dormotov Extord	souton [1 D14].	Note: Provide owner had
	suspected (item (body drain	Classify [F111 Group 4/ Article #8];		"I " IDITI C 47 A (1 1 10)	Permatex Extend		Note. Frevious owner had
	holes) should be checked	Clean and treat bottom of the rear	See Attachment 24 "Rear Bumper	"L" [PIII Group 4/ Article #8].	Rust Treatment	Related Replace the Stock	gas tank internally coated
	periodically and service	wheelhouses, the length of both rocker	Debris" [PBN].		[PBN – need to	Sintered Bronze Fuel Filters	to prevent rusting (but not
	performed when required) -	panels, and front wheelwells next to the			research though to	(due to gas tank filler neck	filler tube/neck or cap area)
	page 52-00-01].	start of the rocker panels, Keep clean			see if best].	rust**) in Holley	[PBN].
		and covered with paint or good quality			_	Carburetors entry in Never	
	[PITI = periodically (check	rubberized undercoat the areas between				section [PBN]	**NOTE: RUST IS
	drilled rustproofing access	gas tank and wheelhouse between gas				seenon [1 bit].	DEVELOPING ON
	holog plugg goole) Crown	gas tank and witcembuse, between gas					OUTSIDE OF CAS TANK
	notes plugs seals) - Group	tank and extension of rocker, and inside					OUTSIDE OF GAS TANK
	47 Article #8].	bottom of both rear wheelhouses [PIT]					AND IN FILLER NECK –
		Group 47 Article #13];					NEED TO TREAT (I had
		Clean Body Drain Holes [FTI page 52-					outside of gas tank sprayed
		00-01].					with Ziebart stuff, but may
		Ĺ					not have gotten all the way
		Check drilled rustproofing access holes					to top of tank) [PRN-
		whose scale* [DITL Crown 47 Article #9]					TEMDI
		plugs seals [P111 Gloup 47 Afficie #8].					IEMIFJ.
		Check engine/engine compartment for					Note: I had exhaust system
		rust (especially spark plug wire holders,					Jet-Hot coated*** to
		and various springs) [PBN].					prevent rusting (previous
							owner replaced original
		Check/Treat Interior of Aftermarket					exhaust system (headers
		License Plate Holder/Frame/backing					manifolds tailnings and
		nlate (numinus summer added) for most					manifolds, unpipes and
		plate (previous owner addea) for rust					mujjiers) with Mina-Irain
		[PBN].					Enterprises "Big Throats"
							Exhaust System") [PBN].
		Check/clean out rear bumper for road					
		dirt/debris trapped inside it (may cause					***Note: Jet-Hot Black
		corrosion) [PBN - Attachment 24 "Rear					should never be polished or
		Bumper Debris"]					rubbed [Jet-Hot Coating
		Bumper Deoris J.					Installation and
1		(mand the public this into 2 putning 6					Maintenana Tinal
1		<u>(need to split this into 2 entries – one for</u>					Maintenance Tips].
		<u>"underbody" and another for rest of</u>					
		exterior of car)?					Note: Previous Owner
							indicated passenger
							floorboard got wet from
							dripping A/C condensation
							and also car flooded orea
							due to a busher heater 1
							the surface h
							– therefore keep eye out for
							any floorboard rust [PBN].

-	1	1	r	 		
LOW [PBN].	Yearly (March) [PBN].	Clean Engine & Rear Trunk			BODY SHELL AND	Note: Important to do this
		Compartment [PBN];			EXTERIOR TRIM	to help identify leaks
		Degrease Engine & Transaxle Assembly			(GENERAL) [.]	[PBN]
		[DITI]			ENGINE (GENERAL):	[1 51 1].
		[[111].			CLUTCH AND	
					CLUTCH AND	OK to have it "steam
					TRANSAXLE	cleaned", or will that cause
					(TRANSAXLE)	rust? PITI guy used water
					()	soluable degreaser
					Deleted Cheels Commen Floor	soluable degreaser.
					Related Check Garage Floor	
					for Indications of Fluid Leaks	Note: Jet-Hot Black (on
					from car entry in Bi-Monthly	exhaust system) should
					section [PBN]	never he polished or rubbed
					section [1 bitt].	Let Hot Coating
						[Jel-Hol Couling
					Related Check Holley 600	Installation and
					Carburetor Diaphragm for	Maintenance Tips].
					Leaks entry in 5000 Miles	
					saction [PRN]	
					section [1 biv].	
	1				Related Check for Water,	
					Oil. Gasoline. Brake and	
					Clutch Fluid Leakage entry	
					in 10 000 Miles section	
					in 10,000 Miles section	
					[PBN].	
					Related Fuel System	
					Components including	
					Components including	
					carburetor should be	
					inspected to assure no fuel	
					leakage entry in 15 000 Miles	
					reakage entry in 15,000 miles	
					section [PBN].	
					Related Inspect all Cooling	
					System hoses and	
					connections for leaks entry in	
					15,000 Miles section [PBN].	
	1					
	1				Related Fuel System	
1	1				Components including fuel	
	1				lines should be inspected to	
	1				intes should be inspected to	
1	1				assure no fuel leakage entry	
	1				in 15,000 Miles section	
1	1				[PBN].	
	1				r	
1	1				Deleted Missellen even Ct. C.	
	1				Related Miscellaneous Stuff	
	1				To Do When Engine Is	
	1				Removed entry in When	
1	1				Engine Removed section	
	1					
	1				[rdN].	
1	1					
	1				Related Miscellaneous Stuff	
1	1				To Do When	
1	1				Transmission/Clutch Is	
1	1				Transmission/Clutch Is	
	1				Removed entry in When	l
	1				Transaxle Removed section	
	1				[PBN]	
					1 * *** * 1 1 *	

HIGH	Yearly (March) [PBN].	Brake Operation Check/Correct (road	See FTI pages 53-02-01 "Brake	Brake System Fluid/Brake Master	BRAKES (GENERAL	Note: Previous owner
[PBN].		test check for following conditions: pull	Operation Check", 12-01-06	Cylinder Lubricant:	HYDRAULIC)	installed stainless steel flex
	[OM = Excessive brake	in either direction, harshness or noise.	"Adjustments (Brake Pedal)", 12-01-06	SAE J 1703 b [OM page 72]:	,	brake lines, and replaced
PBN does	pedal free travel noticed -	excess pedal effort or spongy feel,	"Hydraulic System Bleeding", 12-01-02	Ford Brake Fluid Extra Heavy Duty	Related Foot Brake and	brake master cylinder with
(via	page 16].	operation of brake warning light, hard	"Testing (Brake System Tests, & Brake	(Ford Part No. C6AZ-19542-A,	Emergency Brake items in	different design from Hall
Inspection	10 1	stops and slow gradual stops) [FTI];	Warning Light sections)", 12-01-07	Ford Specification ESA-M6C25-A)	DOT Annual Inspection	Pantera [PBN].
Station)	[OM = Brake Hydraulic	Check* brake system, and if necessary,	"Cleaning and Inspection (Brake	[FTI page 12-01-06 and 53-01-03];	Renewal below [PBN].	
<i>,</i>	System Indicator Lamp	bleed (if excessive brake pedal free	System)" [FTI].	Castrol GT LMA conventional fluid		*Note: Have service
	(special warning device)	travel noticed) [OM page 16].	, , , , , , , , , , , , , , , , , , ,	or silicone-based*** **** brake	Related Road Test entry in	(hydraulic system)/hand
	lights up** - page 16];		See TSB Bulletin 10 Article # 83 "Brake	fluid [PITI Group 12 Article #3].	10,000 Miles section [PBN].	brake warning light on dash
	[FTI = Red (Parking) Brake	Check Brake system without delay (if	Master Cylinder Adjustments" [TSB].			instrument panel [OM page
	Warning Light glows when	Brake Hydraulic System Indicator Lamp		Brake Master Cylinder Push Rod	Related Brake Pads check	16].
	(foot) brakes applied - page	(special warning device) lights up) [OM	See PITI Group 12 Article #3 "Brake	Length:	entry in 30,000 Miles section	-
	33-06-03].	page 16];	Master-Cylinder Rebuild" [PITI].	1.16 inches [TSB Bulletin 10	[PBN].	**Note: Light signals any
	-	There is a fault in the hydraulic system		Article # 83].		malfunction within the
		(pressure differential exists between		-	Related Brake Fluid entry in	brake system [OM page
		front and rear braking systems) (if Red		Bleeding:	5000 Miles section [PBN].	16].
		(Parking) Brake Warning Light glows		When bleeding your brakes, do not		-
		when (foot) brakes applied) [FTI page		depress brake pedal any farther than	Related Coat the Brake Pedal	***Note: Silicone brake
		12-01-02, 33-06-03].		normal travel (will avoid tearing up	Return Spring with Anti-	fluid is not practical for
				your rubber seals by moving them	Seize entry in 50,000 Miles	most Pantera Owners -
				down into a bore area that has some	section [PBN].	only those who totally
				corrosion in it) [PITI Group 12		change brake systems to
				Article #3];		American parts and are
				All brake systems, especially		willing to accept a little
				tandem master cylinder types are		softness in the brake pedal
				best bled using a pressure bleeder.		[POTI Group 12 "About
				If you cannot properly pressure		Pantera Brakes – Part I].
				bleed, much time will be required to		
				bleed manually, so have patience.		****Note: Silicone fluids
				Note: The front calipers are very		tend to entrap air, so the
				difficult to bleed even when using a		bleeding process should be
				pressure bleeder, due to their		done several times over a
				original design. [PBN – Hall		period of days [PITI Group
				Pantera Brake Master Cylinder		12 Article #3].
				Installation Instructions].		

HIGH [PBN].	Yearly (March*) [PBN]. [OM = 12,000 miles or 12 months, at least once a year]; [PITI = The Castrol fluid should be flushed each year - PITI Group 12 Article #3].	Change* **** Brake Fluid [OM].	See FTI pages 12-01-06 "Hydraulic System Bleeding", 12-01-02 "Testing (Brake System Tests, & Brake Warning Light sections)", 12-01-07 "Cleaning and Inspection (Brake System)" [FTI]. See PITI Group 12 Article #3 "Brake Master-Cylinder Rebuild" [PITI].	Brake System Fluid/Brake Master Cylinder Lubricant: SAE J 1703 b [OM page 72]; Ford Brake Fluid Extra Heavy Duty (Ford Part No. C6AZ-19542-A, Ford Specification ESA-M6C25-A) [FTI page 12-01-06 and 53-01-03]; Castrol GT LMA conventional fluid***** or silicone-based** *** brake fluid [PITI Group 12 Article #3]. Brake Fluid Level: Fill to indicated level marked on the reservoir [FTI page 53-04-02]. Bleeding: When bleeding your brakes, do not depress brake pedal any farther than normal travel (will avoid tearing up your rubber seals by moving them down into a bore area that has some corrosion in it) [PITI Group 12 Article #3]; All brake systems, especially tandem master cylinder types are best bled using a pressure bleeder. If you cannot properly pressure bleed, much time will be required to bleed manually, so have patience. Note: The front calipers are very difficult to bleed even when using a pressure bleeder, due to their original design. [PBN – Hall Pantera Brake Master Cylinder Installation Instructions].	BRAKES (HYDRAULIC) Related check level at 5000 miles, change fluid at 15,000 miles entry in 5000 Miles section [PBN].	Note: Previous owner installed stainless steel flex brake lines, and replaced brake master cylinder with different design from Hall Pantera [PBN]. *Note: Check level at 5000 miles, Change at 15,000 miles or at least yearly (see separate entries) [PBN]. Note: if fluid is turning black, it indicates the seals are degrading (already happened to me once) [MECH] – (may be just some minor black seal stuff settling on bottom of reservoir container making fluid look black) [PBN]. **Note: Silicone brake fluid is not practical for most Pantera Owners – only those who totally change brake systems to American parts and are willing to accept a little softness in the brake pedal [POTI Group 12 "About Pantera Brakes – Part I]. ***Note: Silicone fluids tend to entrap air, so the bleeding process should be done several times over a period of days [PITI Group 12 Article #3]. *****Note: The Castrol fluid should be flushed each year to eliminate corrosion caused by water absorption [PITI Group 12 Article #3].
LOW [PBN]. PBN does	Y early (March) [PBN].	Cneck* Operation of Car Burglar Alarm [PBN].	See owners manual for description of what it's supposed to do (need to ref pages in manual that say this) [PBN]. In addition confirm rear trunk lid switch I had connected to it sets off** alarm [PBN].		BURGLAR ALARM Related Replace Burglar Alarm Remote Control Battery entry below [PBN].	"Note: the system requires no specific maintenance [Viper Auto Security System Owners Guide]. **Note: Spray Contact Cleaner on rear trunk lid open sensor switch if not working consistently [PBN].
LOW [PBN]. PBN does	Yearly (March*) [PBN].	Replace (as necessary) Car Burglar Alarm remote control battery (one on keychain, and extra emergency one hidden in car) [Viper Auto Security System Owners Guide].		Remote Control Battery: Small lightweight 3-volt lithium battery [Viper Auto Security System Owners Guide].	BURGLAR ALARM Related Check Burglar Alarm Operation entry above [PBN].	*Battery will last approximately one year under normal use [Viper Auto Security System Owners Guide].

VARIES [PBN].	Yearly (March) [PBN]. (May need to move this to 10,000 mile section since	Have Mechanic do general all over inspection of car to look for anything that's wearing out, deteriorating, starting to break, leaking, loose, etc. [PBN].		CAR Related Check (Repair/Replace If Needed)	
	normally don't have to take trunk tub out at 5000 mile or Vearly (March)			Stuff Normally Don't Have Easy Access To entry in Whenever Engine Removed	
	maintenances)			section [PBN].	
				Related Check (Repair/Replace If Needed) Stuff Normally Don't Have	
				Easy Access To entry in Whenever Transaxle Removed section [PBN].	

MEDIUM	Yearly (March) [PBN].	N.C. Dept of Transportation Annual			CAR;	*Note: State of North
[PBN].		Inspection* Renewal [PBN].			AUXILIARY EQUIPMENT;	Carolina Vehicle
					BRAKES;	Inspection items:
PBN does					ENGINE;	Safety Equipment:
(via					EXHAUSI SYSTEM;	Headlights, Parking Lights,
Inspection					FUEL SYSTEM;	Light/South Lights Plate
Station)					CLUSTERS AND	Light Stop Lights
					CONTROLS:	Directional Signals, Horn
					LIGHTING SYSTEM	Windshield Winers Rear
					STEERING.	View Mirrors Foot Brake
					WHEELS AND TIRES	Emergency Brake Steering
					WINDOW GLASS	Mechanism, Tires, Exhaust
					(add componentstoo?)	System, Clearance Lights,
						Reflectors, Window
					Related Check Tire	Tinting;
				**** Addition	Wear/Condition entry in	Tampering Inspection
				(There wasn't room	5000 Miles section [PBN].	(Note: all Tampering stuff
				for this in Notes		N/A to 1973 car, in NC only
				column -PBN):	Related Replace PCV Valve	1975 and above cars must
				Notes Dugiliour	entry, Check EGR System	pass emissions test):
				ivole: Previous	IPRNI	Latarytic Converter, Air
				owner uuueu aftermarket license		Valve Unleaded Gas
				nlate frame to	Related Check Steering	Restrictor Exhaust Gas
				original license	Control entry in 15 000 Miles	Recirculation, Thermostatic
				plate holder <i>[PBN]</i>	section [PBN].	Air Control, Fuel
				,	··· L 3/	Evaporation Control,
				Note: Previous	Related Lubricate Electric	Oxygen Sensor, Gasoline
				owner replaced	Air Horns Compressor entry	Tank Cap;
				drivers side view	above [PBN].	Exhaust Emission Test:
				mirror with a		(Note: Emissions test N/A
				different design,	Related Wiper Blade	to 1973 car, in NC only
				and added a	Condition entry above	1975 and above cars must
				passenger side view	[PBN].	pass emissions test) [PBN -
				mirror (1 replaced	Related Lighting System	2000 NC Inspection
				dorian) [PPN]	antry below [PPN]	receipt/statement].
				aesign) [FBN].	enuy below [PBN].	**Note: "Catalytic
				Note: Previous	Related Brake Operation	Converter" is not the same
				owner removed	Check entry above. Brake	thing as "Evaporative
				vacuum smog	Pads check entry in 30.000	Emission Canister" (in
				control stuff [PBN].	Miles section,	Inspect Evaporative
				55 L S	Handbrake/Parking Brake	Emission Canister entry in
				Note: I installed the	entry in 15,000 Miles section	30,000 Miles section), but
				Vader headlight	[PBN].	is similar in that it is for
				modification		emissions control [MECH].
				[PBN].	Related General Exhaust	
				Mater Dury 1	System Check entry in	***Note: "Thermostatic Air
				INOIC: Previous	50,000 miles section [PBN].	"Thermostatic Spring
				owner replacea	Related** Inspect	Housing" in A divist
				system (headers	Evanorative Emission	Automatic Choke
				manifolds, tailnines	Canister entry in 30 000	Thermostatic Spring
				and mufflers) with	Miles section [PBN].	Housing Adjustment entry
				"Mind-Train		in 15,000 Miles section
				Enterprises "Big	Related*** Adjust Automatic	[MECH].
				Throats" Exhaust	Choke Thermostatic Spring	
				System" [PBN].	Housing Adjustment entry in	Note: Previous owner
					15,000 Miles section [PBN].	replaced USA style (red)
				Note: I replaced		taillight lenses with
				inside rearview	(Is some of the "Tampering	European style (amber and
				mirror with electric	Inspection" stuff listed in	red) tail light lenses [PBN].
				auto-dimming	column to right related to	Mater Durantes
				mirror [PBN].	that I haven't areas refead	Note: Previous owner
					$\frac{111}{111}$ so need to add cross refs)	horns (sound with the
					<u>30 need to add (1055 1615)</u>	existing horns) [PRN]
						consume norms/ [1 Div].
1						See **** Addition [PBN]

LOW [PBN]. PBN does	Yearly (March) [PBN]	Check Condition (replace if expiration dates exceeded or used up or otherwise as necessary) of the routine items I store in front trunk: Fire Extinguisher, Quart of Oil, Spare Fuses, Can of Brake Fluid, Can of De-Icer, Bottle of Water Wetter, Can of Fix-A-Flat (NON-Flammable) [PBN].			DOORS, HOOD, AND LUGGAGE COMPARTMENT (LUGGAGE COMPARTMENT)	Note: revise this entry yearly to reflect any new stuff I may store (or no longer need to store) [PBN].
HIGH [PBN].	Yearly (July) [PBN].	Cut Down any Dead/Dying Trees that could fall on Garage [PBN].			GARAGE	
PBN does				K ID a	CADACE	* N <i>G</i> 1 1 1 <i>G</i>
LOW [PBN]. PBN does	Yearly* (July) [PBN]. [Liftmaster Wireless Keyless Entry Manual = Replace when keypad illumination becomes dim* - page 2].	Check (Replace IJ needed) Battery in Garage Door Keypad Opener (on Garage exterior wall) [PBN].	See Liftmaster Wireless Keyless Entry Manual page 1 [Liftmaster Wireless Keyless Entry Manual].	Keypad Battery: 9 volt battery[Liftmaster Wireless Keyless Entry Manual – page 2].	GARAGE Related Check/Replace Garage Door Remote Control (in car) Battery entry in 5 Years section [PBN].	*Note: The keypad battery should produce power for at least one year [Liftmaster Wireless Keyless Entry Manual – page2].
LOW [PBN]. PBN does	Yearly (July) [PBN]. [Clopay Installation & Maintenance Steel Residential Garage Door Instructions = Annually – page 32]; [Lift-Master Garage Door Opener Owner's Manual = Once a Year – page 27].	Lubricate All Moving Parts of the Garage Door*** (Lift cables at the bottom bracket button, Lock hardware where surfaces turn or slide, Full length of torsion spring, Steel rollers*) [Clopay Installation & Maintenance Steel Residential Garage Door Instructions – page 32]; Oil Garage Door** *** Rollers, Bearings and Hinges [Lift-Master Garage Door Opener Owner's Manual – page 27].	See Clopay Installation & Maintenance Steel Residential Garage Door Instructions page 32 "Lubrication" [Clopay Installation & Maintenance Steel Residential Garage Door Instructions].	Garage Door Lubricant: Light household oil [Clopay Installation & Maintenance Steel Residential Garage Door Instructions – page 32].	GARAGE Related Manually Operate Garage Door entry in Bi- Monthly section [PBN]. Related Check Garage Door Opener Chain Tension entry in Semi-Yearly section [PBN]. Related Check Garage Door Hardware entry below [PBN].	*Note: Do NOT lubricate nylon rollers [Clopay Installation & Maintenance Steel Residential Garage Door Instructions – page 32]. **Note: The garage door opener does not require additional lubrication [Lift- Master Garage Door Opener Owner's Manual – page 27]. ***Note: Do not grease the door tracks [Lift-Master Garage Door Opener Owner's Manual – page 27].
LOW [PBN]. PBN does	Yearly (July) [PBN]. [Clopay Installation & Maintenance Steel Residential Garage Door Instructions = Annually – page 32].	Check Garage Door Hardware*: Check for loose or bent hinges (tighten loose hinges, straighten or replace bent hinges); Check roller for broken wheels, bent shafts, or worn out bearings; Check the door and track supports for loose or missing bolts, screws, etc. and tighten**; Check for bent track [Clopay Installation & Maintenance Steel Residential Garage Door Instructions – page 32].	See Clopay Installation & Maintenance Steel Residential Garage Door Instructions – page 32 "Check Door Hardware" [Clopay Installation & Maintenance Steel Residential Garage Door Instructions – page 32].		GARAGE Related Manually Operate Garage Door entry in Bi- Monthly section [PBN]. Related Check Garage Door Opener Chain Tension entry in Semi-Yearly section [PBN]. Related Lubricate all Moving Parts of the Garage Door entry above [PBN].	*Note: Torsion spring assembly and wood anchor pad should only be adjusted or repaired by a professional door technician [Clopay Installation & Maintenance Steel Residential Garage Door Instructions – page 32]. **Note: Be careful not to overtighten [Clopay Installation & Maintenance Steel Residential Garage Door Instructions – page 32].
LOW [PBN]. PBN does	Yearly (March) [PBN]	Check Condition (replace if expiration dates exceeded or used up or otherwise as necessary) of the routine items I store in Glove Compartment: Spare Contact Lenses (and eye drops), Eyeglasses, Car registration/license plate renewal card, Car Proof of Insurance card, Flashlight (battery and bulb) [PBN].			INTERIOR TRIM (GLOVE BOX) Related Replace Outdated Driving Map entry in 5 Years section [PBN].	Note: revise this entry yearly to reflect any new stuff I may store (or no longer need to store) [PBN].

HIGH [PBN].	Yearly (March) [PBN].	Check Operation of Lights and Turn Signals (check headlight and parking	See OM pages 59 "Headlamp Replacement" & "Front Turn	Bulbs (Back-up, Brake Warning, Cigar Lighter, Console, Courtesy	Headlamp Bulbs*: Vader modification	LIGHTING SYSTEM (GENERAL)	*Note: I installed the Vader headlight modification.
	[FTI = Light Beam appears	light switches to be sure all parking	Signal/Parking Bulb Replacement", 60	(tube type), Door, Hazard Warning,	replacement DOT		Previous Owner had
PBN does	too high or too low (Item	lights, taillights, headlights, headlight	"Rear Turn Signal/Parking/Back-	Headlight, Instrument Panel,	headlamps include	Related lights items in DOT	installed Cibie Z-Beam
(via Annual	should be checked	door opening mechanism, instrument	up/Stop/Number Plate Bulb	License Plate, Seat Belt Warning,	the following:	Annual Inspection Renewal	quartz headlights (see also
Inspection	periodically and service	lights, and interior*** lights are	Replacement", 61 "Front Side marker	Turn Indicator (front), Turn	H4666XV, H4666,	above [PBN].	PITI Group 32 Article #1),
Renewal	performed when required) -	working; replace any burned-out bulbs	Bulb Replacement",	Indicator (rear)):	H6545 (NAPA		including adding relays
above)	page 52-00-01].	and check to see that wiring connections	62 "Rear Side Marker Bulb	See "Specifications (Bulb Chart)"	H6545 came with	Related Clean All Lucas	(required per Cibie
		are clean and tight) [F11 page 53-02-01].	Keplacement [*] , 63 "Headlamp Alming"	on F11 page 32-02-04 [F11].	<i>conversion kit)</i>	Electrical Parts entry in	instructions) in front trunk
		Chack/A diust Headlemn Setting [OM	[OM].	Corrected Electrical Connectors:	[vaaer Pantera Hoadlight	10,000 Miles section [PBN].	to avoia burning out the
		page 63]:	See FTI pages 53-02-01 "Check	Liquid Wrench (this is repair, not	Conversion		relays or wiring – may or
		Check/Adjust Headlight Alignment/Aim	Operation of Lights and Turn Signals"	maintenance?) [PITI Group 32	Installation		may not need the relays
		[FTI page 53-03-01]:	53-03-01 "Headlight Alignment" 32-02-	Article #11	Instructions –		depending on what use to
		Check Headlight alignment (if light	02 "Testing (Headlight System)",		[PBN].		replace the Cibie Z-Beams.
		beam appears too high or too low) [FTI	"Adjustments (Headlight Alignment)",	Corroded Bulb Sockets:			(PBN].
		page 52-00-01].	"Removal and Installation (Headlight	Wet/dry emery paper (this is repair,			
			Bulb)", 32-20-02 "Front Parking and	not maintenance?) [PITI Group 32			**Note: I replaced original
		Do visual inspection of headlight system	Turn Signal Light Bulb", "Rear Light	Article #1].			bulbs in 4 gauges on center
		(check for wires with frayed or damaged	Bulbs", 32-20-03 "Marker Light Bulb –				console, and in
		insulation, loose connections, and	Front and Rear", "License Light Bulb",	Headlight Aiming Equipment:			Speedometer &
		improper harness routing – correct any	"Back-Up Light Bulb", 32-40-01	Rotunda Headlight Aiming Kit			Tachometer, with brighter
		problems found) [F11 page 32-02-02];	Elector Pulby 22.60.02 "Pad Light on	(Model 1.K.E. 540) [F11 page 55-			ones from Hall Pantera (the
		1]	Door" "Instrument Panel Lights**"	05-01, 52-02-02].			Tachometer bulbs are
		1].	"Console Bulbs**" [FTI]	Headlamn Aiming Conditions:			halogen – do not touch with
		Check operation of side turn signal	Console Bulos [1 11].	Headlamp Setting must be made			fingers or will cause them
		lights, and backup lights [PBN].	See PSH page 8 "Headlight System"	with an unladen vehicle on level			to burn out) [PBN].
		8	[PSH].	group [OM page 63];			
			L J	Headlight Adjustments should be			***Note: I added roof
			See PITI Group 32 Article #1	made with a half-full tank plus or			console with map lights
			"Headlights, Taillights, and Driving	minus one gallon, the vehicle			[PBN].
			Lights" (this is repair, not maintenance?)	unloaded and the rear compartment			
			[PITI].	empty except for the spare tire and			Note: Previous owner
				jacking equipment, and			replaced USA style (red)
				recommended pressure in all the			taillight lenses with
				tires [F11 page 53-03-01].			European style (amber and
				(need to determine type of bulb my			rea) tau light lenses [PBN].
				added roof console man lights use			Nota: Pravious owner
				and list them here)			added aftermarket license
							plate frame to original
							license plate holder [PBN].
							Note: The plastic headlight
							motor gears (prone to
							break) have NOT (by
							previous owner or me) been
							replaced with the newer
							metal gears from Hall
					1		raniera [PBN].

LOW [PBN].	Yearly (March) [PBN]	Print out (and/or save to disk) any	Be sure to update this list yearly as sites			PAPERWORK	Note: Example websites
		new/revised maintenance/technical	come and go. Also, if site has a				are:
PBN does		articles from major Pantera technical	"contents" or "index" of the articles,				Tech Info:
		websites, and add to my personal tech	print it out and add to my personal tech				www.panteraplace.com,
		articles book (and incorporate into this	articles book as an easy way to				http://geocities.com/provam
		checklist as needed) [PBN].	compare/identify any new articles the				<u>072</u> ,
			next year (but still need to check for				http://www.panteraparts.co
		Print out (and/or save to disk) any newly	revisions to old articles too) [PBN].				<u>m</u> ,
		issued (since last year or last time did it)					http://members.aol.com/sob
		on-line Pantera clubs newsletters, since					<u>ill/</u> (especially Pantera
		they sometimes contain technical					Gearheads Resource),
		articles (add any tech related articles to					http://www.panteraadventu
		my personal tech article book and					re.com,
		needed) [PRN]					www.351cleveland.info):
		neeueu) [1 DNJ.					Parts Info:
		Save all the various Pantera					http://www.rectec.net/~ricki
		Newsgroups/Bulletin Boards (Realbig.					ov/parts.htm (parts
		PI. PPC, etc) posts (i.e.,					interchange list).
		newsgroup/bulletin board archive) to					http://www.carfolio.com/pa
		disk for future availability if					ss (parts interchange list),;
		newsgroup/bulletin board folds [PBN].					Newsgroups Info:
							http://realbig.com/pipermai
		Print out PI Magazine Cross Reference					<u>l/detomaso</u> ,
		Index (if updated) on Back Issues page					http://64.70.166.243/cgi-
		of Pantera International website to					<u>bin/ubbcgi/Ultimate.cgi</u> ,
		replace the (outdated) one in my					http://www.panteraparts.co
		personal tech articles book [PBN].					<u>m/cgi-</u>
							bin/Ultimate.cgi?action=int
							<u>ro</u> ,
							<u>niip://www.supercars.net/c</u> <u>Mag2wiawForuma_werga</u>
							Msg: viewForumsA-y@ma
							<u>ke-Delomaso</u> , http://communities.msn.com
							/SoutheastPanteras/messag
							eboard msnw
							http://www.carmemories.co
							m/clubs/detomaso;
							Pantera Club Websites:
							http://panteracars.com,
							http://www.panteraclub.co
							<u>m</u> ,
							http://www.easternpantera.
							<u>com</u> ,
							http://www.panteraclubnor
							<u>cal.com</u> ;
							Noveletters:
							Newsletters:
							m/documents
							http://www.norcalpanteracl
							ub.com/librarv.html ·
							etc. [PBN].
LOW [PBN].	Yearly (March) [PBN]	Check Consumer Reports Website for				PAPERWORK	Note: address is
		new/updated car related stuff reviews					http://www.consumerreport
PBN does		(for best products etc to use for this					s.org [PBN].
		checklist). Use other sources also to try					
		to determine best parts/products to use					Note: With respect to this,
		for those cases where I don't have one					see note 8 above [PBN].
		determined, or to change currently listed					
		parts/products to use if something better					
		comes out [PBN].		1	1		

LOW [PBN]. PBN does	Yearly (March) [PBN]	Order catalogs from major Pantera vendors (or print catalogs from their websites) to see what new car stuff (especially non-stock aftermarket parts and add-on stuff) is available [PBN]. Check Vendor & Club websites for new non-parts products (books etc) [PBN]. Visit auto parts stores (e.g., Pep Boys, AutoZone, Advance, NAPA, etc) to see what new or better products/car stuff is available that would be useful for Pantera [PBN].	Be sure to update this list yearly as vendors come and go [PBN]. Be sure to update this checklist (and/or modifications list) if find new/better products/parts to use [PBN].		PAPERWORK	Note: Example vendors with catalogs are Hall Pantera, Pantera Parts Connection, Panteras by Wilkinson (factory authorized), Pantera East, PI Motorsports, Pat Mical's Detomaso Pantera, etc. [PBN]. Note: Example vendors with non-parts products are Pantera International, Wilkenson Pantera, etc; Example Clubs with non- parts products are POCA, PCNC, etc [PBN].
LOW [PBN]. PBN does	Yearly (March) [PBN]	Review any modifications/enhancements I made to car in last year to see if any new maintenance stuff need to add to this checklist (or restore stuff from the "Never" section back to the to do sections) because of it. Also, revise the "Pantera 5749 Modifications" attachment at beginning of this checklist if needed [PBN]. Review repairs I made to car in last year and note on this checklist if replaced a stock component with a non-stock component in case that affects maintenance [PBN]. If get any more historical info on my car from previous owner or other sources, revise the "Pantera 5749 Previous Owner Info" attachment at beginning of this checklist [PBN].			PAPERWORK	

				DADEDWODV	* 1 2 1
MEDIUM	Yearly (March*) [PBN].	Mecklenburg City-County Venicle**		PAPERWORK	*Note: is due 3 months
[PBN].		(Personal Property***) Taxes [PBN].			after car
				Related* Car	registration/license plate
PBN does				Registration/License Plate	renewal done (therefore for
(via to-do				Renewal entry below [PBN].	Pantera the License
calendar)					Plate/Registration expires
,					12/31 so tax due in March
					and is late May 1) [PRN
					TAV DILLI
					TAA DILLJ.
					**Note: This entry covers
					the Pantera Vehicle taxes
					only, not my other cars
					[PBN – TAX BILL].
					***Note: Vehicle tax is
					special class of personal
					property taxes [PBN_TAY
					property taxes [1 bit – 1AX
					DILLJ.
					Note: 1973 Dellomaso
					Pantera VIN #
					THPNNB05749,
					Pantera License Plate #
					XXX-XXXX,
					Pantera Title #
					XXXXXXXXXXXXXXXXXXX
					[PBN]
					[I DN].
					Notes City County Ton
					Note: City-County Tax
					Collector phone 704-336-
					4600, Can renew online
					(using credit card) at
					www.co.mecklenburg.nc.us/
					cotax, or by phone (toll
					free) 1-877-533-0072
					[PBN]
					[]-
					Note: Account No. changes
					worky Tox or out \$270
					yearly, 1 ax amount $\frac{52}{0}$
					(cnanges yearly), 1 ax
					Value = $$18,350$ (changes
					yearly) [PBN – TAX BILL
					(2003)].
					Note: This is also listed on
					mv to-do Calendar [PBN]
LOW [PBN]	Vearly (June 30) [PBN]	444 Carolinas Membershin Renoval		PAPERWORK	Note: Account # YYY YYY
LOW [FDN].	rearry (June 50) [F DN]	FDDN1		IAIEKWUKK	VVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVV
DDN					AAAAAAAA A (000-222-
PBN does					433/) [PBN].
(via to-do					
calendar)					Note: For towing, roadside
					assistance, etc. [PBN].
					Note: This is also listed on
					my to-do Calendar [PBN].

LOW [PBN].	Yearly (January) [PBN]	Renew memberships to Eastern Pantera		PAPERWORK	Note: Eastern Pantera
		Association Club and DeTomaso			Website/phone:
PBN does		Drivers Club (UK) and Chesapeake			http://www.easternpantera.
(via to-do		Panteras Club [PBN].			com and
calendar)					http://groups.msn.com/EAS
					IERNPANIERAASSOCIAI
					ION (609-39/-8806);
					Website/email
					http://www.datomasodc.co
					uk/
					detomaso dcuk@virgin net
					- Roger Brotton, backup is
					Phil.Stebbings@virgin.net:
					Chesapeake Panteras Club
					Website/phone
					http://autos.groups.yahoo.c
					om/group/ChesapeakePant
					eras/ (Fred XXXXX (410)
					XXX-XXXX) [PBN].
					Note: Club magazines and
					newsletters sometimes have
					articles (can add to this
					checklist) [PRN]
					chechnoly [1 bit].
					Note: This is also listed on
					my to-do Calendar [PBN].
LOW [PBN].	Yearly (November) [PBN]	Renew memberships to Pantera		PAPERWORK	Note: PI membership ID#
		International (PI) club and POCA club			4774,
PBN does		[PBN].			POCA membership ID#
(via to-do					3591 [PBN].
calendar)					
					http://pontergageg.gom
					$\frac{\text{Intp://panteracars.com}}{(714,620,8162)}$
					POCA website/phone:
					http://www.panteraclub.co
					m (281-880-9561) [PBN]
					<u> </u>
					Note: My designated local
					POCA chapter is
					Chesapeake Panteras
					[PBN].
					Note: Club magazines and
					newsletters sometimes have
					maintenance related
					articles (can add to this abacklist) [PPN]
					checklist) [FDIV].
					Note: This is also listed on
					my to do Calondar [DDN]

MEDIUM [PBN]. PBN does (via to-do calendar)	Yearly (December*) [PBN]	<i>N.C.</i> Division of Motor Vehicles (car registration/license plate) renewal [PBN].				PAPERWORK Related <i>Mecklenburg</i> City- County (Personal) Property Taxes entry above [PBN].	*Note: Will get renewal notice in November (technically expires 12/31, but have 2 week grace period to renew, so actually expires 1/15) [PBN]. Note: NC DMV phone 919- 715-7000, Can renew online (using credit card) at <u>www.dmv.dot.state.nc.us</u> or <u>www.ncgov.com/citizen</u> [PBN]. Note: 1973 DeTomaso Pantera VIN # THPNNB05749, Pantera License Plate # XXX-XXXX, Pantera Title # XXX-XXXX, Customer ID # XXXXXXXXXXXX, Insurance Co Authorized in NC is "G06 – Government Employees Insurance Co.", County in which vehicle is subject to property tax is MECKL [PBN]. Note: This is also listed on my to-do Calendar [PBN]. Note: Previous owner
	Veerly* (March) [DBN]	Clean Tana Player Heads [PRN]			Head Cleaning	RADIO	added aftermarket license plate frame to original license plate holder [PBN]. *Note: Or more often as
PBN does		Crean Tape Flayer freads [FB14].			Use head cleaning cassette tape [PBN].	KADIO	needed [PBN].
HIGH [PBN]. PBN does	Yearly (March) [PBN]	Check Seat Belts and Belt/ Shoulder Anchors For Security and Wear and fit (check buckle and clasp for proper retention, release, and length adjustment) [FTI page 53-02-01]; Inspect Seat Belts for loose or worn webbing, inspect all anchor bolts for tightness [FTI page 41-01-02]. Wash Seat Belt webbing [FTI page 41- 01-02].	See FTI page 53-02-01 "Check* Seat Belts For Security and Wear", 41-01-02 "Cleaning and Inspection (Seat Belts)" [FTI].	Washing Webbing: Any commercial soap or detergent (do not use carbon tetrachloride, naptha, etc.; Bleaching or redyeing the seat belts is not recommended as it may deteriorate the webbing) [FTI page 41-01-02].		SEATS (SEAT BELTS)	*Note: I replaced factory seat belts with different design from Hall Pantera [PBN].
HIGH [PBN].	Yearly (March) [PBN]	Check front/rear suspension for A arm/shaft support assembly problems [PITI Group 14 Article #3, WEB (Attachment 4)]; Check lower front suspension mounts for potential failure [POCA NL Sept 2001 pages 19 & 20 (Attachment 21b), POCA NL July 2002 pages 9 & 10 (Attachment 21c), WEB (Attachment 21a "Frame Rails")].	See PITI Group 14 Article #3 "Rear Suspension Failure" [PITI]. See Attachment 4 "Maintenance and Safety Inspections* (Back A Arm Mounts, Front A Arm Mounts)" [WEB]. See Attachments 21a, b, c "Frame Rails" [POCA NL/WEB].			SUSPENSION (GENERAL) Related Disassemble both A frame units and re-grease them (the bushings) entry in 40,000 Miles section [PBN].	Note: Some of these concerns may not apply to 1973 Panteras – see POCA NL Sept 2001 pages 19 & 20 (Attachment 21b), POCA NL July 2002 pages 9 & 10 (Attachment 21c), WEB (Attachment 21a "Frame Rails") [PBN/POCA NL/WEB]. Note: Previous owner installed set of Hall Pantera extended rear upper "A" arms [PBN].

LOW [PBN].	Yearly (March) [PBN].	Check car's paint job. Repaint car (and	See TSB Bulletin 9 Article # 63	Exterior Paint**:	Exterior Paint	TOPS AND EXTERIOR	*Note: Using body putty in
		black trim items - cowl grills, rear	"Elastomer Repair Procedures – Front	See TSB Bulletin 1 Article #1	(**repainted by	FINISHES (GENERAL);	many instances does not
PBN does,		quarter panel grills, engine cover, front	Bumper" [TSB].	"Pantera Paint – Supplier's Codes", Pullotin 7 Articlo # 53 "1072 1/	MAACO in 2001): Shomuin Williama #	BODY SHELL AND	adhere and in weather
except		un" any scratches/dings atc. as	See PITI Group 47 Article #0 "Front	Bulletin / Afticle # 55 19/2 /2 -	Sherwin Williams # 60180 "Lee Silver	(BUMPERS)	or crumble depending on
repaining		necessary in interim [PBN].	Bumper Repair "L" Series". Group 47	Model "L"" [TSB]:	Metallic" (black	(BOWIERS)	severity of original damage
			Article #12 "Front Bumper***	PITI Group 46 Article #1 "Exterior	parts of car are	Related Up-Keep of	to bumper - suggest using
		Correct cuts, scratches or abrasions of	Repainting" [PITI].	Paint Colors – Part Numbers"	Sherwin Williams	Bodywork (Removing Stains,	3M-8101 Structural Repair
		front bumper [TSB Bulletin 9 Article #62_PITI Group 47 Article #01		[PIII].	Gloss Black I think)	Washing the Car, Polishing	Kit for rubber bumpers
		#05, FITT Gloup 47 Atticle #9].		Front Bumper Damaged Area	[FDN].	section [PBN].	Article #9]
		Repaint Front bumper after it fades		Filler*:			
		[PITI Group 47 Article #12].		Red or grey body putty [TSB			***Note: If have front
				Bulletin 9 Article #63];			bumper repainted be sure
				rubber humpers [PITI Group 47			(like Jenkins & Jenkins
				Article #9].			body guy did) so won't get
				_			spider cracks in it
				Front Bumper Paint**:			eventually like did after
				#63 PITI Group 47 Article #91			MAACO painted it [PBN].
				Jet black Fabspray vinyl color spray			Note: The bolts holding on
				[PITI Group 47 Article #12].			my front bumper are
							rusting (I put grease on
							hut can't tighten them verv
							tight) [PBN].
							· · · · · · · · · · · · · · · · · · ·
							NOTE: IF HAVE TO GET
							(possibly use silver paint
							the color of the car on the
							cover of Road & Track
							magazine July 2001;
							or the dark/rich brown of
							1978 Ferrari 308 GTS
							"Marone Mattalic" – if do
							then will want to blacken
							and wiper arms and entire
							exterior door
							handles/assemblies and
							DeTomaso & Pantera
							on Pantera GTSs and rear
							trunk opener/lock and
							license plate holder and
							interior window etc trim
							keen silver possible paint
							bumpers silver too), install
							the teardrop shaped
							windshield washer nozzle I
							winer fix of PITI Group 35
							Article #6 (since can afford
							to chip paint then taking off
							cowl grill and old nozzle),
							in tops of door rocker
							panels for ziebarting fixed
							(don't like looks of plastic
							plugs), and possibly install
							vents I hought (maybe huy
							fiberglass hood to put the
							vents in so don't have to cut
							up original hood in case
							aon't like it later), see also PITI Group 47 Article #3
							"Rust!" [PBN - TEMP]

LOW [PBN].	Yearly (March) [PBN].	Check** Conditioner [OM];	Air Conditioner Refrigerant*:	VENTILATING AND	Note: Assume OM
		Check Air Conditioning System [FTI].	Freon (R-12), or substitutes	HEATING (GENERAL)	"Conditioner" is Air
	[OM = at least once a year];		[MECH/PBN] (need to list		Conditioner [PBN].
	[FTI = At beginning of		acceptable substitutes forR12 I can		
	warm weather season (Item		<u>use)</u> .		Note: previous owner
	should be checked				replaced air conditioner
	periodically and service		Air Conditioner Refrigerant		compressor (Sanyo),
	performed when required) -		Capacity:		expansion valve, dryer,
	page 52-00-01].		3.5 lbs Freon [PBN – handwritten		clutch and hoses [PBN].
			note on a original copy of PSH		
			Specs Section by mechanic that		*Note: Car would require
			took the class].		modifications (retrofitting)
			(need to find a more official source		to use the newer
			to verify this)		environmentally friendly
					(R-134a) alternative
					refrigerant [MECH].
					**NOTE: UAD TO ADD
					EPEON ADDIL 2001
					TREON AT KIL 2001 – MAV HAVE SMALL
					MAI HAVE SMALL
					LEAK (possibly infu ine
					hoses under car [POCA NI
					May 2001 pages 16 & 171)
					IPRN TEMPI
					***Note: Slow leak in AC is
					expensive to find/fix,
					therefore probably just
					better to upgrade/replace
					whole system to use new
					type refrigerant [PBN –
					MECH – TEMP].
	Bi-Yearly				

HIGH [PBN].	Odd-Years (March* - Note originally refilled at engine rebuild in 2001) [PBN]. [FTI = Check at 12,000 miles or 12 months, replace at 24,000 miles or 24 months (replace every 24 months regardless of mileage) pattern]. [PITI = Replace "worn-out" anti-freeze each year – Group 27 Article #5]. [POCA NL Apr 2002 = Change antifreeze yearly - POCA NL Apr 2002 – Attachment 23 "POCANLapr2002etc"].	Drain and Flush Cooling System, and Replace* *** Cooling System Fluid [FTI].	 See OM page 31 "Cooling System – Filling Procedure" [OM]. See FTI page 27-01-03 "Filling Cooling System" [FTI]. See PSH page 13 "Filling an Empty Cooling System" [PSH]. See PITI Group 27 Article #2 "The Pantera Cooling System", Group 27 Article #5 "Coolant Hoses" [PITI]. See TSB Bulletin 2 Article # 13 "Cooling System Characteristics", Bulletin 8 Article #1 ("Coolant System – Overheating Conditions (Air Purging)" [TSB]. See Attachment 1 "Coolant Changing Email", and Attachment 8 "Pantera Cooling System (Coolant Tanks, & Air In System sections)" [WEB]. ADD "WATER WETTER" COOLANT ADDITIVE [WEB - Attachment 8 "Pantera Cooling System (The Coolant)"]. 	Cooling System Capacity: 6 3/8 Gallons [OM page 72]; 25 1/2 Quarts [PSH Specs Section]. Coolant Fluid: 40% Antifreeze – 60% Water (Use only permanent-type coolant that meets Ford Specification ESE-M- 97 B18-C. Do Not use Alcohol or Methanol anti-freeze or attempt to mix them with the factory coolant) [OM page 72]; Solution of 50% water and Ford Antifreeze [FTI page 53-04-01]; Ford Cooling System Fluid and water [FTI page 27-00-02]; Permanent antifreeze and water mixture [FTI page 27-01-03]; 50-50 mixture of antifreeze, good idea to put in about 60% antifreeze; [PTTI Group 27 Article #2]; coolant mixture of approximately 50-50 water and ethylene glycol (antifreeze) [TSB Bulletin 2 Article # 13, Bulletin 8 Article # 61]; See Attachment 8 "Pantera Cooling System (The Coolant)" [WEB]. (need to determine which is best value to use, and bold it) Checking Level: Check radiator coolant level with engine cold [OM page 14, FTI page 53-04-01, TSB Bulletin 2 Article # 11, Bulletin 8 Article # 61]; Check Level in Expansion Tank Using flexible dipstick*** [PITI Group 27 Article #2]. Coolant Tanks Level: Top up the supply tank and partially fill the expansion tank [PSH page 13]; Keep supply tank** filled at all times and maintain expansion/recovery tank half filled [TSB Bulletin 2 Article #11]; Feed tank must always be completely full [OM page 14]; Expansion tank should be maintained at a half filled level at all times [TSB Bulletin 11 Article #96].	Coolant Additive: "Water Wetter" by Redline [WEB - Attachment 8 "Pantera Cooling System (The Coolant)"].	COOLING SYSTEM (GENERAL) Related Check Coolant Level and Fill Expansion Tank entry in Bi-Monthly section [PBN]. Related Check Coolant Condition at 15,000 miles, Replace at 30,000 miles section [PBN].	 *Note: Check coolant level and fill expansion tank bi- monthly, Check coolant condition at 15,000 miles, Replace at 30,000 miles or at least bi-yearly (see separate entries) [PBN]. Note: will probably drive <30,000 miles every 2 years so the bi-yearly change should negate the need for a 30,000 miles change [PBN]. **Note: With respect to filling system with coolant and purge all air, TSB 2 Article #13 and TSB 3 Article #19 are WRONG – use procedure described in TSB 8 Article 61 [PITI Group 27 Article #2]. ***Note: I keep a flexible dipstick (rubber hose) for checking coolant level in expansion tank, and special long/flexible funnel for putting coolant in expansion tank, in front trunk [PBN]. NOTE: NEXT TIME DRAIN COOLING SYSTEM, CHECK TO BE SURE HAVE CORRECT THERMOSTAT PER ATTACHMENT 8 "PANTERA COOLING SYSTEM (CLEVELAND THERMOSTAT)" [PBN – TEMP].
LOWIDDNE	5 Years	Charle (Danlarse if words d) Datte	See Liferenter Courses Deer Or	Demote Control Transmitter		CADACE	*N
LOW [PBN]. PBN does	Every 3° rears from 2001** (March) [PBN].	Garage Door Remote Control Transmitter (in car) [PBN].	see Lynnaster Garage Door Opener Owner's Manual page 27 [Liftmaster Garage Door Opener Owner's Manual].	Remote Control Transmitter Battery: Lithium Battery [Liftmaster Garage Door Opener Manual].		GARAGE Related Check/Replace Garage Door Keypad Battery entry in Yearly section [PBN].	 Note: Ine remote control transmitter (in car) battery should produce power for up to 5 years [Liftmaster Garage Door Opener Owner's Manual]. **Note: Garage installed (remote control transmitters new) in 2001 [PBN].

LOW [PBN]. PBN does MEDIUM [PBN]. PBN does (via to-do calendar)	Every 5 Years from 2001 (March) [PBN]. Every 5 Years from 2001 (October 14) [PBN] Mileage Interval (Do when Odometer is a	Replace (becomes outdated) driving map [PBN]. Drivers License Renewal [PBN]			INTERIOR TRIM (GLOVE BOX) Related Check Condition/Replace Routine Items in Glove Compartment entry in Yearly section [PBN]. PAPERWORK	Note: Drivers License # 2051186 [PBN]. Note: This is also listed on my to-do Calendar [PBN].
	multiple of this) Every 5000 Miles					
HIGH [PBN].	[5000/15,000* PBN]. [OM = 4000/8000 & 16,000/20,000 & 28,000/32,000 pattern or 4/8 & 16/20 & 28/32 months pattern for checking, 12,000 or 12 months (at least once a year) for changing]. [FTI = check at 8000 or 8 months]; [TSB = 4000 miles (check) - Bulletin 5 Article #28]. [PITI = The Castrol fluid should be flushed each year - PITI Group 12 Article #3].	Check Level/Change* **** ***** Brake Fluid [OM]. Check Brake Master Cylinder Fluid Level [FTI page 52-00-03]; Check Brake Fluid Reservoir (clean the area around the reservoir caps) [FTI page 53-04-02]; Check Brake Fluid Level [TSB Bulletin 5 Article #28].	See FTI pages 53-04-02 "Check Brake and Clutch Fluid Reservoirs", 12-01-06 "Hydraulic System Bleeding", 12-01-02 "Testing (Brake System Tests, & Brake Warning Light sections)", 12-01-07 "Cleaning and Inspection (Brake System)" [FTI]. See PITI Group 12 Article #3 "Brake Master-Cylinder Rebuild" [PITI].	Brake System Fluid/Brake Master Cylinder Lubricant:: SAE J 1703 b [OM page 72]; Ford Brake Fluid Extra Heavy Duty (Ford Part No. C6AZ-19542-A, Ford Specification ESA-M6C25-A) [FTI page 12-01-06 and 53-01-03]; Castrol GT LMA conventional fluid***** or silicone-based** *** brake fluid [PITI Group 12 Article #3]. Brake Fluid Level: Fill to indicated level marked on the reservoir [FTI page 53-04-02]. Bleeding: When bleeding your brakes, do not depress brake pedal any farther than normal travel (will avoid tearing up your rubber seals by moving them down into a bore area that has some corrosion in it) [PITI Group 12 Article #3]; All brake systems, especially tandem master cylinder types are best bled using a pressure bleeder. If you cannot properly pressure bleed, much time will be required to bleed manually, so have patience. Note: The front calipers are very difficult to bleed even when using a pressure bleeder, due to their original design. [PBN – Hall Pantera Brake Master Cylinder Installation Instructions].	BRAKES (HYDRAULIC) Related Change Fluid at Least Yearly entry in Yearly section [PBN]. Related Brake Operations Check entry in Yearly section [PBN].	Note: Previous owner installed stainless steel flex brake lines, and replaced brake master cylinder with different design from Hall Pantera [PBN]. *Note: Check Fluid level at 5000 miles, Change Fluid at 15,000 miles or at least yearly (see separate entries) [PBN]. Note: If fluid is turning black, it indicates the seals are degrading [MECH]] – (may be just some minor black seal stuff settling on bottom of reservoir container making fluid look black) [PBN]. **Note: Silicone brake fluid is not practical for most Pantera Owners – only those who totally change brake systems to American parts and are willing to accept a little softness in the brake pedal [POTI Group 12 "About Pantera Brakes – Part I]. ****Note: Silicone fluids tend to entrap air, so the bleeding process should be done several times over a period of days [PTI Group 12 Article #3]. ****Note: The Castrol fluid should be flushed each year to eliminate corrosion caused by water absorption

HIGH [PBN]. [500 [ON 16,0 28,0 4/8 moti chei moti [FT moti repu requ [PT] [TS Bull 	000/15,000* PBN]. M = 4000/8000 & ,000/20,000 & ,000/32,000 pattern or 8 & 16/20 & 28/32 onths pattern for ecking, and 12,000 or 12 onths for check (adjust, pair, or replace as quired)]; TI = 12,000 or 12 onths for check (adjust, pair, or replace as quired)]; SB = 4000 miles - illetin 5 Article #28].	Check (adjust, repair, or replace as required) All Drive Belts [FTI page 52- 00-02]; Check Tension/Replace* Alternator/Water Pump Drive Belt*** and Compressor Drive Belt (alternator*** and compressor** ***) Tension (and free movement) [FTI page 53-04-01]; Check Alternator/compressor** drive belt*** tension [TSB Bulletin 5 Article #28]. Check the Alternator Belt*** Tension (tighten to specification if necessary) [FTI page 31-01-01]; Check Alternator Drive Belt*** and adjust to specification [FTI page 31-10- 01]. Check Tension of Water Pump Belt*** [PITI Group 27 Article #2].	See FTI pages 53-04-01 "Check Drive Belt Tension", 31-01-01 "Charging System General Service Testing (Visual Inspection)", 31-10-01 "Testing", Adjustments (Belt Adjustment)" [FTI]. See PITI Group 36 Article #5 "Air Conditioner Belt Tensioner Modification [PITI]. See PSH page 3 "Interior – Service Accessibility (Engine Accessibility)" [PSH]. (need to reference this wherever else need to remove firewall cover/engine hatch –e.g., all distributor from engine top?) See Attachment 15 "The Firewall Cover" [WEB]. (need to reference this wherever else need to remove firewall cover/engine hatch hatch –e.g., all distributor from engine top?)	Tensioning Tool: Use Belt Tension Tool T63L-8620- A [FTI]. All Belts Tension: 140 lbs (new), 110 lbs (used – A used belt is any in operation for 10 minutes), Minimum tension before re-adjustment = 70 lbs [FTI page 21-22-28, 53-04-01]. Alternator Belt Tension (lbs): 70-110 (Used Belt – used belt is one that has been in operation more than 10 minutes), 140 (New belt), If belt tension is out of specification or belt has been removed reset to 110 lbs [FTI page 31-10-05]. Water Pump Belt Tension: So that it doesn't slip [PITI Group 27 Article #2]. Free Movement of Both Drive Belts: 1/2 inch (measured midway between the crankshaft pulley and the compressor or alternator pulley) [FTI page 53-04-01]. Alternator Drive Belt bolts Torque (ft-lb): 15 to 18 (adjusting bolt), 15 to 17 (lower mounting bolt) [FTI page 53-04-01]. Compressor Drive Belt Tension Pulley Nut Torque (ft-lb): 15 to 18 (FTI page 53-04-01]. Air Conditioning Compressor Drive Belt: Ford Part No. C9PZ-8620-BF [TSB Bulletin 11 Article #95]; New compressor drive belt (Part No. C9PZ-862-BF) one inch shorter effective in production 12/18/1973 [PPQR Electrical item 11]. <i>Crankshaft to Compressor Belt***</i> (firewall modification) Size: 13mm x 910 mm (Brand ContiTech Conti – SF AVX13x910) [MECH]. Alternator Belt*** (firewall modification) Size: 9.5/10mm x 625mm (25/64" x 24- 5/8") (Brand MAP Premium XL Belt 25 # 7240 [PBN – Firewall Vendor supplied].	CHARGING SYSTEM (ALTERNATOR); ENGINE (WATER PUMP) (need compressor system/comp ref) Related Check Timing Chain Deflection entry in 30,000 Miles section [PBN].	*Note: Check tension at 5000 miles, Replace at 15,000 miles [PBN]. Note: Alternator/Water Pump and (A/C) Compressor belts are the only belts on '73 Pantera) [MECH – Pantera Vendor]. **Note: The A/C compressor belt*** cannot be adjusted more than once. After first adjustment belt must be replaced [PPQR Electrical item 11]. ***Note: I replaced alternator and voltage regulator with an alternator that has a built in voltage regulator, and disconnected the generator light in the speedometer (as part of firewall passenger seat modification) - I now have 3 belts (crankshaft to compressor belt (slightly longer than original Pantera one) and separate alternator belt and water pump belt), instead of just 2 (compressor belt and alternator/water pump belt) [PBN].
				modification) Size: 9.5/10mm x 625mm (25/64" x 24- 5/8") (Brand NAPA Premium XL Belt 25 # 7240 [PBN – Firewall Vendor supplied]. Water Pump Belt*** (firewall modification) Size: 11A0785 (Brand Dayco "Top Cog" # 15310) [PBN – Firewall Vendor supplied]		

MEDIUM [PBN].[5000 PBN].Check Battery Condition, Check Connections and Fluid Level* [FTI page 52-00-01]; (FTI = If difficult starting is service performed when required) – page 52-00-01]; [TSB = 4000 miles - Bulletin 5 Article #28].Check Battery Condition, Check Connections and Fluid Level* [FTI page 52-00-01]; Check Battery Fluid Level*, Cable Connections and Fluid Level*, Cable Connections (for tightness***), and service performed when required) – page 52-00-01]; [TSB = 4000 miles - Bulletin 5 Article #28].Check Battery Condition, Check Connections and Fluid Level* [FTI page 53-04-02].See OM page 64 "Battery" [OM].Electrolyte: Distilled Water or tap water unless it has a high mineral content or has been stored in a metal container [FTI].Battery****: Distilled Water or tap water unless it has a high mineral container [FTI].Battery****: Exide Select Orbital* [PBN]. (meed to determine been stored in a metal container [FTI].CHARGING SYSTEM (BATTERIES)*Note: Cu "Orbital*****: Distilled Water or tap water unless to check Battery Fluid Level*, Cable Connections (for tightness***), and service performed when required) – page 52-00-01]; [TSB = 4000 miles - Bulletin 5 Article #28].Check Battery to determine state of charge and condition (recharge or replace as needed) [FTI page 31-01-01].See OM page 64 "Battery" [OM].Electrolyte Level: IANIZED (Visual Inspection)" [FTI].Electrolyte Level: IANIZED (Visual Inspection)" [FTI].Check Battery to determine if it is damagedCHARGING SYSTEM "Wote: Cu "Orbital"*Note: Cu "Orbital"MEDIUM (BATTERIES)Check Battery Fluid Level* [FTI page S2-00-01]; (Check Battery to dete								
ind Cabbe Cornession" [PTI]. [DA page 64]; Lagit contain failing non-inetailing grace (terminals and posts) [FTI]. S). ind Cabbe Cornession" [PTI]. [DA page 64]; Lagit contain for non-inetailing grace (terminals and posts) [FTI]. Nate: Prop Mattery Cabbe Cabbe Cornession" [PTI]. Nate: Prop Mattery Cabbe Carnession" [PTI]. Nate: Prop Mattery Cabbe Carnession" [PTI]. Nate: Prop Mattery Cabbe Carnession" [PTI]. Nate: Prop Mattery Cabbe Carnession" [PT] Nate: Prop Mattery Cabbe Carnession (Caen/Carnes/Keplace Carnession" [PT] Nate: Prop Mattery Cabbe Carnession" [PT] Nate: Prop Mattery Cabbe	MEDIUM [PBN].	[5000 PBN]. [OM = 4000 or 4 months – page 64]; [FT1 = If difficult starting is experienced (Item should be checked periodically and service performed when required) – page 52-00-01]; [TSB = 4000 miles - Bulletin 5 Article #28].	Check Battery Condition, Check Connections and Fluid Level* [FTI page 52-00-01]; Check Battery Fluid Level*, Cable Connections (for tightness***), and State of Charge [FTI page 53-04-02]. Test Battery to determine state of charge and condition (recharge or replace as needed) [FTI page 31-01-01]. Give Thorough Visual Examination of Battery to determine if it is damaged (presence of moisture on the outside of the case and/or low electrolyte level in one or more cells are indications of possible battery damage) [FTI page 31- 01-01]. Check that battery electrical connections are free from oxidation and that they are clean and lightly coated with petroleum jelly [OM page 64]; Check Battery Posts and Battery Cable Terminals for clean and tight*** connections (if cables are corroded remove, clean and install them securely) [FTI page 31-01-01]. Check Electrolyte Level* (with a cold battery) [OM]; Check Electrolyte Level* [TSB Bulletin 5 Article #28]. Inspect Trunk Floor Under Rubber Mat the Battery Sits on, and Ground Post and Cable Connection on Trunk Floor for Rust/Corrosion (Clean/Correct/Replace as needed) [PITI Group 34 Article #3].	See OM page 64 "Battery" [OM]. See FTI pages 53-04-02 "Check Battery Fluid Level, Connections, and State of Charge", 31-02-01 "Batteries (Testing, Tests Using the Rotunda Cell Analyzer)", 31-02-02 "Tests Using the Rotunda Battery-Starter Tester (Battery Capacity Test)", 31-01-01 "Charging System General Service Testing (Visual Inspection)" [FTI]. See PITI Group 34 Article #3 "Battery and Cable Corrosion" [PITI].	Electrolyte: Distilled Water [OM page 64]; Distilled Water or tap water unless it has a high mineral container [FTI]. Electrolyte Level: 1/4to 3/8-inch above the top of the plates [FTI page 53-04-02]. Electrical Connections: Petroleum Jelly (lightly coated) [OM page 64]; Light coating of non-metallic grease (terminals and posts) [FTI]. Battery Capacity Test: Voltage over 9.6, Specific Gravity over 1.230 [FTI page 31-02-02]. Battery Capacity (amp-hours): 72** (1971-72 models), 90 (1973 model). Battery Specific Gravity: 1.275 to 1.290 (Charged) [FTI page 31-02-03]; Not less than 1.250 (with battery temperature at 80 degrees F) [FTI page 53-04-02]. Battery: Correct service replacement is Motorcraft type G27F [TSB Bulletin 3 Article # 18]. Cleaning Ground Post: Steel Wool of a Brush [PITI Group 34 Article #3]. Cleaning Front Trunk Floor if Corroded: Water and Baking Soda, seal with a battery post protector sealant and paint [PITI Group 34 Article #3].	Battery****: Exide Select Orbital* [PBN]. (need to determine best battery to use – Orbital?, Optima?, Pro Vol 8900001?)	CHARGING SYSTEM (BATTERIES)	*Note: Currently installed "Orbital" Battery is sealed – no level to check [PBN]. Note: If use a non-sealed battery, install a battery venting kit if possible or special battery cover to prevent corrosion in front trunk compartment [PITI Group 28 Articles # 1 & 2; TSB Bulletin 9 Article # 73, Bulletin 9 Article # 73, Bulletin 11 Article 73- S]. Note: Positive external battery venting system effective in production 7/13/1973. A similar system is also available for the 94 AH service replacement battery [PPQR Electrical item 1]. **Note: Effective 5/14/73, 72 Ampere Hour battery replaced with 90 Ampere Hour battery [TSB Bulletin 9 Article # 74, PPQR Electrical item 2]. ***Note: The Italian battery cable ends are made of a very SOFT lead, DO NOT OVER TIGHTEN the retaining nut as you will break the cable end (SNUG and not moveable is tight enough with good clean cables and posts) ; Service Station quick repairs or quick fixes ("Jerry Rigged") on the positive cable end due to overtightening is definitely a NO-NO – replace the cable [PITI Group 34 Article #3]. ****Note: When need to replace battery, check Consumer Reports for one rated highest in CCA and Reserve Capacity (and small size so saves front trunk space) – see Attachment 22 "Auto Batteries" for 2001 ratings

HIGH	[5000 PBN].	Make sure you have plenty of brake	See FTI pages 53-04-02 "Check Brake	Clutch Fluid:	CLUTCH AND	Note: No need to change
[PBN].		fluid in the clutch system, that it is clean,	and Clutch Fluid Reservoirs", 16-02-04	Extra Heavy Duty	TRANSAXLE (CLUTCH	Clutch Fluid like have to do
	[OM/FTI = 4000/8000 &	and that you have bled it to ensure no air	"Hydraulic Clutch System Bleeding"	(Brake/Hydraulic) Fluid	MASTER CYLINDER,	with Brake Fluid [MECH].
	16,000/20,000 &	in the system [POTI Group 16 "Clutch	[FTI].	conforming to Ford Specification	CLUTCH HYDRAULIC,	
	28,000/32,000 pattern or	Maintenance"].		ESA-M6C25-A) [FTI pages 53-04-	CLUTCH SLAVE	Note: I replaced clutch
	4/8 & 16/20 & 28/32		See PITI Group 16 Article #9	02, 16-02-04, and 16-02-05];	CYLINDER)	master cylinder with Hall
	months pattern];	Check Clutch Fluid Reservoir (Clean the	"Understanding, Troubleshooting and	All Silicone fluids are totally		Pantera CNC master
	[TSB = 4000 miles -	area around the reservoir cap) [FTI page	Adjusting your Clutch Linkage" [PITI].	unsatisfactory for the Pantera clutch		cylinder [PBN].
	Bulletin 5 Article #28].	53-04-02];		system [POTI Group 12 "About		
		Check* Clutch Fluid Level [OM, FTI		Pantera Brakes - Part I], Silicone		Note: if fluid is turning
		page 52-00-03, TSB Bulletin 5 Article		fluid is not acceptable on a stock		black, it indicates the seals
		#28].		clutch system [POTI Group 16		are degrading (already
				"Clutch Maintenance"];		happened to me once)
		Bleeding of the Clutch hydraulic fluid		Brake Fluid (note the higher grades		[MECH]] – (may be just
		system is vital (be sure the slave		(DOT 4, 5, etc) don't do any good		some minor black seal stuff
		cylinder is rotated so the bleed screw is		(because they are ratings for heat		settling on bottom of
		at the top) [PITI Group 16 Article #9		which is not a problem in the		reservoir container making
		[PITI].		clutch) but you want good quality		fluid look black) [PBN].
				and are hopefully using a "high"		
				grade for your brakes so why not		*Note: MY CLUTCH
				use the same stuff (for the clutch)		FLUID IS ALREADY
				[POTI Group 16 "Clutch		TURNING BLACK AGAIN
				Maintenance"];		(NOV 2001) - MAY HAVE
				DOT 3 Brake Fluid [PBN – new		PROBLEM SOON [PBN].
				2001 Hall Pantera CNC master		2 3
				cylinder's instructions].		
				5		
				Clutch Fluid Level:		
				Fill to indicated level marked on the		
				reservoir [FTI page 53-04-02]:		
				Master cylinder reservoir should be		
				maintained at 3/4 full reservoir (do		
				not overfill) [PBN – new 2001 Hall		
				Pantera CNC master cylinder's		
				instructions].		

HIGH	[5000/10,000* PBN].	Check* Level/Change******	See OM page 39 "Changing Transaxle	Transmission - Differential	Oil Type Currently	CLUTCH AND	*Note: Check level at 5000
[PBN].		Transaxle Oil [OM];	Oil" [OM].	Capacity/Oil Amount:	in my	TRANSAXLE	miles, Change******* at
	[OM = 4000/8000 or 4/8			7 1/2 Pints [OM page 72];	ZF******::	(TRANSAXLE)	10,000 miles [PBN].
	months (check/change)];	Check Transaxle Fluid (Oil) Level	See FTI page 53-01-02 "Check	7-1/4 pints oil [TSB Bulletin 12	Castrol Hypoy C		44437
	[7] h - h - h - h - h	[FII]; Charle Old and in the Theory is in	Transaxle Oil", "Changing Transaxle	Article #104];	Gear Oil SAE	Related Check ZF for Loose	**Note: I have a ZF drain
	Section IVI:	[ZE].	On [F11].	Amount of oil necessary can be	MECHI	Never section [PRN]	her socket fits 7F "innia"
	FTI = check at 8000 or 8	[Zr], Check Transmission Oil Level [TSB	See ZF pages 5 "Method of Lubrication	seen on the type plate (on first	[MLCII].		style drain nlugs) kent in
	months];	Bulletin 5 Article #28].	(type for passenger car and sports car)",	filling this amounts to 3.5 litres)		****** Oil Addition (There	trunk [PBN].
	[TSB = check level at 4000]	L	6 "Oil Level Control (type for passenger	[ZF Section IV].		wasn't room for this in	(does this fit the side fill
	miles - Bulletin 5 Article	Clean magnetic drain plug** *******	car and sports car)", 7 "Oil Drain" [ZF].	(need to determine which is best		specifications column -PBN):	plug too? If so ref to that
	#28].	(of adhering abrasives) when changing		value to use, and bold it)	***** Addition		<u>too)</u>
		transaxle oil [OM page 39, FTI page 53-	See TSB Bulletin 12 Article #104		(There wasn't room	Some lubricants which meet	
	[ZF = 1 change after 4000- 5000 km further abanges	01-02, ZF].	"Iransaxle Assembly – Second Gear Synahra Naisa" Pullatin 12 Articla	Iransaxle Lubricant/Oil Type***:	for this in	the ZF specifications****:	Note: I have a ZF
	after 16 000-20 000 km -		#104-S "Transayle Assembly – Second	SAE 80 AF OL-5 [OW page 72], SAE 90 E P Gear Oil [FTI]:	column -PBN).	hubricant SAF 80 BP gear oil	IPRNI
	Section I:		Gear Synchro Noise" [TSB].	Castrol Hypov 80W90 (GL4) [TSB	column 1 Ditt).	EP 80. Chevron Multi-	[Dig.
	Change at first 4-5000 km		, L J	Bulletin 12 Article #104];	Transaxle Oil Level	Service gear lubricant SAE	Note: I have a "Type 2" ZF
	on new or repaired			Mild gear oil of viscosity class SAE	Checking (Level)	80, Esso gear oil GP 80, Gulf	transaxle [PBN].
	gearboxes, then every 16-			80 [ZF Section I];	Plug:	gear lubricant SAE 80,	
	20,000 km (if vehicle is out			Mild EP gearbox oils of viscosity	22mm Allen	Mobilube GX 80, Shell	Note: I had my ZF safety
	of service for a period of			class SAE 80 (these are grades	Wrench [1SB Bulletin 3 Article #	(DB) SAE 80, Texaco	wirea [PBN].
	the oil before bringing back			condensation do not cause	22]	universal gear lubricant	*****Note: See
	into service) – Section IV];			corrosion on steel and non-ferrous].	EP80, Valvoline Hypoid X-	Attachment 18 "Sunday Oil
	[TSB = Change lubricant at			metal parts and hardening of	Transaxle Oil	18 SAE 80 [TSB Bulletin 2	Change" [WEB].
	first 3000 miles, and each			gaskets and seals - must meet	Checking:	Article # 12].	
	12,000 miles thereafter –			lubrication requirements of ZF-	Vehicle should be		******Note: I added
	Bulletin 2 Article #12].			Iransmission No. 12-118), EP Gear	in horizontal	***Note: All vehicles having	Teflon tape to drain (not
				Specification MIL-L 2105 (A) [ZF	oil and some time	a chassis number prior to 05900 (Job 1, 1974 Model)	Have to replace the Teflon
				Section IVI:	should be allowed	must have the existing	tape (or liquid Teflon) each
				Oil conforming to specs MIL-L-	to elapse until the	transaxle lubricant replaced	time remove drain (not fill)
				2105 SAE 80 [PPQR Powertrain	oil has settled and	with Castrol Hypoy 80W90	plug or will leak again.
				Item 7]	cooled somewhat	(GL4) (noisy and/or difficult	Need to permanently fix this
				See Also ******Oil Addition and	[ZF];	engagement into second gear	in future. [PBN – TEMP].
				********Note [PBN].	Unless a careful	could result from the	********Nata: when
				Transaxle Oil Level	lubricant used is	factory installed lubricant) –	topping off oil use the same
				The oil should be even with the	maintained, it is	it is also important that the	type as is currently in ZF
				bottom of the side level plug hole	very easy to believe	above lubricant be used for	(not good to mix types)
				[FTI];	that the "full" level	filling a replacement	[PBN].
				Fill until oil flows from oil level	has been reached. A	transaxle or when changing	
				plug hole [OM page 39]; Oil Container should be filled with	re-check several	lubricant at the specified	Note: The following ZF oil
				oil oil filler hole must be filled to	reveal the level has	sources of approved lubricant	made by various Pantera
				overflowing [ZF]	fallen requiring	will be published when they	Vendor Mechanics in 2002:
				o verno (ring [22].	further lubricant to	become available****) [TSB	Shell Spirax HD 80/90 wt
				Transaxle Oil Changing:	be added. This	Bulletin 12 Article #104];	Gear oil (DON'T use Mobil
				Transaxle oil must be changed	process may have	ZF report premature wear of	1 synthetic gear oil)
				while warm***** [FTI];	to be repeated	second gear synchro due to	[MECH – Holman &
				nerformed when warm IOM page	several times to	which remove molybdenum	MOODY]; Quaker State 90 wt HD oil
				39]:	capacity reading	from synchromesh ring	[MECH – Jenkins &
				Before draining old oil, vehicle	(this filling and	surfaces. Castrol Hypoy GL4	Jenkins];
				should run for a short while so that	checking procedure	SAE 80/90 is the only	Penzoil #4096 (80/90 wt)
				any condensed water present can be	is necessary due to	approved lubricant which is	[MECH – PPC Colorado];
				mixed in the oil, oil should be	the slow rate at	available to US dealers	80/90 wt Chevron Del Gear
				drained from a warm gearbox [ZF].	which oil passes	[PPQK Powertrain Item 7].	OII [MECH – Wilkenson Panteral:
				Transaxle Oil Level Drain*******	forward sections	****Additional Sources of	80/90 wt Valvoline or
				Plug**:	within the	Approved Transaxle	Castrol (regular Castrol is
				22mm (0.866") Allen wrench (a	transaxle) [TSB	Lubricants (complete listing):	fine, don't need to use "C")
				7/8" (0.875") Allen wrench can be	Bulletin 13 Article	Penzoil "Audi-VW Special	(either GL4 or GL5 should
				substituted although in some cases	#104-S].	Gear Lubricant MIL-L-2105-	be fine – if one causes
				it may be necessary to modify the		GL4", Kendall "VW-Porche	chattering switch to the
				the drain plug) [TSB Bulletin 14		- Auui Manual Transmission	Transmissions
				Article #118].		90". Ouaker State "Special	ransinissionsj.
						2105 Gear Oil SAE 80	
				See ***** Addition [PBN].		W90", Castrol "Hypoy	
						80W90 (GL4)" [TSB	
						Bulletin 13 Article #104-S].	

MEDIUM	[5000 PBN].	Lube Axle Shaft Sleeves [OM]:	See PITI Group 15 Article #2 "Driving	Lubricant:	DRIVING AXLES AND	Note: "Drive Axles" are
[MECH].	L 3	Lubricate Sliding Sleeves (axle shafts)	Axles" [PITI].	Use molybdenum di-sulfide grease	DRIVE SHAFTS (AXLE	referred to as "Half-Shafts"
	[OM = 4000 or 4 months];	[TSB Bulletin 5 Article #28];	LJ	[OM];	SHAFT)	in mid-engine applications
	[TSB = 4000 miles];	Lubricate the Drive Axle Splines (male-	(has zerk fitting on half shaft [MECH -	Grease [PITI Group 15 Article #2].	,	(like Pantera) [PITI Group
	[PITI = regular basis	female) [PITI Group 15 Article #2].	Pantera Vendor])?		Related Lube Drive Shaft	15 Article #2].
	(lubricate drive axle				Universal Joints entry below	1
	splines) - Group 15 Article				[PBN].	Note: Lubing axle shaft
	#2].				LJ	(sliding) sleeves and lubing
	-					axle splines is the same
						thing [MECH - Pantera
						Vendor].
						1
						Note: The left and right
						axle halves may have been
						reversed (solid shaft
						portion of the half shaft
						near the transaxle and the
						sleeve portion toward the
						wheel) in order to put the
						"Mind Train Big Throats
						Exhaust System" on [PBN-
						Mind Train Enterprises Big
						Throats Installation
						Instructions].

MEDIUM [PBN]. (should be high?) [TSB = 4000 miles]. [TSB = 4000 miles].	Lubricate* **** Prive Shaft Jniversal Joints [PITI Group 53 Article ^[1] ; Jubricate* **** **** Universal Joints TSB Bulletin 5 Article #28]. Inspect the lubrication* *** **** assage ways connecting the trunions to be sure are not clogged (if have the type vith lube fittings) [PITI Group 15 Article #1].	See PITI Group 53 Article #1 "Lubrication Tips" [PITI].	Universal Joints Lubricant: Good quality lithium base grease [PITI Group 53 Article 1]. Lubing Universal Joints Tool: Hand grease gun [PITI Group 53 Article 1].	DRIVING AXLES AND DRIVE SHAFTS (UNIVERSAL JOINTS) Related Lube Drive Axle Shaft Sleeves/Splines entry above [PBN]. Related Diagnose Bad Halfshaft Universal Joints entry in 10,000 Miles section [PBN].	Note: "Drive Axles" are referred to as "Half-Shafts" in mid-engine applications (like Pantera) [PITI Group 15 Article #2]. Note: There are no u-joints on the front [MECH]. Note: The left and right axle halves may have been reversed (solid shaft portion of the half shaft near the transaxle and the sleeve portion toward the wheel) in order to put the "Mind Train Big Throats Exhaust System" on [PBN- Mind Train Enterprises Big Throats Installation Instructions]. *Note: Panteras newer than 6/11/73 have lifetime** lubrication on drive shaft universal joints [TSB Bulletin 10 Article # 84, PITI Group 53 Article 1]; Redesigned drive shaft with improved universal joint effective in production 6/12/1973 [PPQR Powertrain item 11] - Mine was built 7/73 per door pillar 1D plate [PBN], but VIN code "NB" indicates May 1973 [FTI page 10-00- 01] – therefore not sure if my original u-joints were		
					 6/11/73 have lifetime** lubrication on drive shaft universal joints [TSB Bulletin 10 Article # 84, PITI Group 53 Article 1]; Redesigned drive shaft with improved universal joint effective in production 6/12/1973 [PPQR Powertrain item 11] - Mine was built 7/73 per door pillar ID plate [PBN], but VIN code "NB" indicates May 1973 [FTI page 10-00- 01] - therefore not sure if my original u-joints were lifetime sealed or not**** ***** [PBN]. **Note: Lifetime lubrication means there's no grease fitting so can't lube it, all you can do is replace it (will make noise when needs replacing) [MECH]. ***Note: Many OEM Universal Joints have no zerk fittings and are never lubricated after being assembled [PITI Group 15 Article #2]. ****Note: My car's 2 rear inner u-joints have zerk fittings, but the 2 rear outer u-joints have zerk 		
[PBN]. Ur (should be high?) [TSB = 4000 miles]. #1 Lu [TsB=4000 miles]. #1 Inspande [TsB=4000 miles]. #1 Vertical [TsB=4000 miles]. #1 Lu [TsB=400 miles]. [TsB=400 miles]. Lu [TsB=400 miles]. [TsB=400 miles]. Lu [TsB=400 miles]. [TsB=400 miles]. Lu [TsB=400 miles]. <t< td=""><td>Jniversal Joints [PITI Group 53 Article ^[1]; ubricate* **** **** Universal Joints TSB Bulletin 5 Article #28]. nspect the lubrication* *** **** passage ways connecting the trunions to be sure are not clogged (if have the type with lube fittings) [PITI Group 15 Article #1].</td><td>"Lubrication Tips" [PITI].</td><td>Good quality lithium base grease [PITI Group 53 Article 1]. Lubing Universal Joints Tool: Hand grease gun [PITI Group 53 Article 1].</td><td>DRIVE SHAFTS (UNIVERSAL JOINTS) Related Lube Drive Axle Shaft Sleeves/Splines entry above [PBN]. Related Diagnose Bad Halfshaft Universal Joints entry in 10,000 Miles section [PBN].</td><td>referred to as "Half-Shafts" in mid-engine applications (like Pantera) [PITI Group 15 Article #2]. Note: There are no u-joints on the front [MECH]. Note: The left and right axle halves may have been reversed (solid shaft portion of the half shaft near the transaxle and the sleeve portion toward the wheel) in order to put the "Mind Train Big Throats Exhaust System" on [PBN- Mind Train Enterprises Big Throats Installation Instructions].</td></t<>	Jniversal Joints [PITI Group 53 Article ^[1] ; ubricate* **** **** Universal Joints TSB Bulletin 5 Article #28]. nspect the lubrication* *** **** passage ways connecting the trunions to be sure are not clogged (if have the type with lube fittings) [PITI Group 15 Article #1].	"Lubrication Tips" [PITI].	Good quality lithium base grease [PITI Group 53 Article 1]. Lubing Universal Joints Tool: Hand grease gun [PITI Group 53 Article 1].	DRIVE SHAFTS (UNIVERSAL JOINTS) Related Lube Drive Axle Shaft Sleeves/Splines entry above [PBN]. Related Diagnose Bad Halfshaft Universal Joints entry in 10,000 Miles section [PBN].	referred to as "Half-Shafts" in mid-engine applications (like Pantera) [PITI Group 15 Article #2]. Note: There are no u-joints on the front [MECH]. Note: The left and right axle halves may have been reversed (solid shaft portion of the half shaft near the transaxle and the sleeve portion toward the wheel) in order to put the "Mind Train Big Throats Exhaust System" on [PBN- Mind Train Enterprises Big Throats Installation Instructions].		
HIGH	[5000 PBN].	Change Engine Oil, Replace Engine Oil	See OM page 37 "Changing Motor Oil	Oil Pan Capacity:	Oil:	ENGINE (GENERAL)	*Note: Severe Service
--------	------------------------------	--	---	--	------------------------	---	---
[PBN].		Filter (Clean the gasket surface of the	and Filter" [OM].	5 Quarts (Oil Sump and Filter)	5W-30 Synthetic		Operation is when
	[OM = 4000 or 4 months];	cylinder block, Inspect the oil pan drain		[OM page 72];	(Mobil 1 Tri-	Related Oil Level Check	operating your car under
	[FTI = oil 4000 or 4	plug gasket and replace if necessary)	See FTI page 53-01-02 "Change Engine	5 U.S. Quarts (includes 1 quart with	Synthetic****)	entry in Bi-Monthly section	any of the following
	months, filter 8000 or 8	[FTI];	Oil and Replace Oil Filter", 21-22-21	filter replacement) [FTI page 21-	[PBN-WEB –	[PBN].	conditions: Extended
	months;	Change Oil & Oil Filter (clean the filter	"Removal and Installation (Oil Filter)"	22-29];	Attachment 11		periods of idling or low-
	If Severe Service	base surface in contact with the seal)	[F11].	Will hold 6 quarts [PITT Group 27	"Engine Oil		speed operation, Outside
	oil overv 2 months or 2000	[UM pages 55, 57]; Change Oil and Filter [PITI Group 27		Afficie #2]; 6 Quarta (plus an avtra $1/2$ or so	Choices J.		± 10 dograde E for 60 days
	miles and oil filter every A	Article #2]:		quarts for a new stock filter) for	Oil Filter:		or more and most trips are
	months or 4000 miles]	Change Engine Oil and Oil Filter [TSB		performance driving 5 quarts for	Mobil M1-301		less than 10 miles. In severe
	[PITI = change oil often	Bulletin 5 Article #28]		normal driving [WEB - Attachment	[PBN-WEB –		dust conditions [FTI]
	2500 to 3000 miles seems			18 "Sunday Oil Change"].	Attachment 10	*** Addition (There wasn't	
	to be most appropriate				"Engine Oil Filter	room for this in	**Note: Dipstick's
	maximum interval];			Oil:	Study"]. (is	specifications column -PBN):	manufactured marks are
	[TSB = 4000 miles -			SAE 20W/50 API MS (Temp > 0	Motorcraft FL1-HP		apparently off some (see
	Bulletin 5 Article #28].			deg C), SAE 10W40 API MS	oil filter, or Fram	Oil Filter Insert to Block	TSB 5 Article 34, and
				(Temp < 0 deg C) [OM page 72];	HP-1 racing oil	Torque Limit (Ft-Lb):	PPQR Powertrain Item 4),
				Recommended motor oil (see	filter, better? – they	20-30 [FTI page 21-22-32].	upper scratched mark is
				Specifications "Engine Lubricant:	are recommended		measured 5 quarts level,
				Vigoogity Oil, and Single	mgnly on Pantera	Un Pan Drain Plug Torque	with lower scratched mark
				Viscosity Oil on Filipage 53-01-	email listserver)	Limit (Ft-LD): 15 25 [ETL page 21 22 32]	scaled to match manufactured range [PRM]
				Top quality 20-50 weight oil above		15-25 [1 11 page 21-22-32].	manujaciarea range [1 DIV].
				40 degrees ambient temperature			****Note: Mobil
				10-40 below 40 degrees (consistent			apparently changed the
				sub-zero temperatures would			name/improved this product
				require a lighter oil) – don't use			in 2002 to "Mobil 1 Fully
				single weight oil at all [PITI Group			Synthetic Motor Oil with
				27 Article #2].			SuperSyn Anti-Wear
							Technology" (5W-30
				Oil Level:			Newer Vehicle Formula)
				Never allow oil to be under the			[PBN].
				filling up never exceed the			
				maximum level (SAFE) [OM page			
				36].			
				Do not add oil past the full mark			
				never allow the oil level to fall			
				below the add mark [FTI page 53-			
				01-02];			
				Use the previous owner's hand			
				scratched marks scale on oil			
				dipstick, not the manufactured**			
				marks [PBN].			
				Oil Changing:			
				Oil Changing must be carried out			
				with a warm engine [OM page 37].			
				Oil Filter to Block Torque Limit			
				(Cartridge Type):			
				Screw filter cartridge onto filter			
				base until the seal contacts and give			
				an extra nall turn [OM page 3/]; With grease on gasket surface hand			
				tighten until gasket contacts adoptor			
				face then tighten 1/2 turn more IFTI			
				page 21-22-32]:			
				Thread filter onto the adapter until			
				gasket contacts the cylinder block,			
				then turn filter an additional one-			
				half turn (do not overtighten the			
				filter) [FTI page 53-01-02];			
				Hand tighten until gasket contacts			
				the adapter face, then advance it $1/2$			
				turn [F11 page 21-22-21].			
				See *** Addition [PBN].			

MEDIUM	[5000 PBN].	Check Holley 600 Carburetor	See Attachment 3 "Holley 600		FUEL SYSTEM	Note: I replaced carburetor
[PBN].		Diaphragm for Leaks [WEB –	Carburetor Fuel Leak Problem" [WEB].		(CARBURETOR)	with a Holley 600, with
	[WEB = As Part of Regular]	Attachment 3 "Holley Carburetor Fuel	ĽJ		· · · · · · · · · · · · · · · · · · ·	manual choke [PBN].
	Ongoing Maintenance	Leak Problem"].			Related Keep Carburetor in	1 3
	Checks - Attachment 3	3			Good Operating Condition	Note: I have a Hollev Carb
	"Holley 600 Carburetor				entry in 15,000 Miles section	Manual Book [PBN].
	Fuel Leak Problem"].				[PBN].	2 3
	-					Note: Can check for leaks
					Related Check/Adjust Idling	visually without having to
					Speed and Mixture entry in	disassemble [MECH].
					15,000 Miles section [PBN].	
					Related Check Carburetor	
					Choke entry in 15,000 Miles	
					section [PBN].	
					Related Check Carburetor	
					Throttle Linkage, Air Valve,	
					Throttle Solenoid and	
					Dashpot entry in 15,000	
					Miles section [PBN].	
					Related Clean/Degrease	
					Engine and Transaxle entry	
					in Yearly section [PBN].	

VARIES	[5000 PBN].	MISCELLANEOUS STUFF TO KEEP	1) See PITI Group 14 Article #6	1) See PITI Group 11 Article #4	3) See Replace Fuel	MISCELLANEOUS*	Note: Once an item is
[PBN].	e in dr	AN EYE ON PERIODICALLY (more	"Pantera Shock Adjusting*** ****"	"Pantera Detomaso L & GTS	Filter entry info in		permanently
		frequently than the normal check	[PITI - TEMP].	Optional Fitment & Setting" [PITI	10,000 Miles	1) Related Check for Car	repaired/replaced, delete its
		frequency of that item elsewhere* in this	2) See Poplace Fuel Filter entry info in	- TEMPJ.	section [PBN –	Leaks entry in 10,000 Miles	entry stuff (TEMP's) off this listing (and any TEMP
		maintenance needed and thus is not	10,000 Miles section [PBN – TEMP].	3) See Replace Fuel Filter entry	1 Edvit J.	socion [1 Dix - 1 EMF].	cross references* to this
		listed on checklist) THAT		info in 10,000 Miles section [PBN-		1) Related Garage Floor Leak	listing), but be sure any
		EVENTUALLY NEEDS TO BE	5) See Replace Air Cleaner entry in	TEMP].		Indication entry in Bi-	useful info/references is
		REPAIRED OR REPLACED [PBN]:	10,000 Miles section [PBN – TEMP].	5) See Penlage Air Cleaner entry in		Monthly section [PBN -	also on this checklist
		1) Shock Absorbers: Check** front		10.000 Miles section [PBN –		I EMIF J.	off this entry [PBN].
		passenger and rear drivers shock		TEMPJ.		2/3) Related Underbody	
		absorbers (have slow leak) [PBN –				Protection (rust and	*Note: Add temporary
		<i>TEMPJ</i> . (need permanent entry to periodically check shock absorbers				corrosion) Check entry in Vearly Section [PBN –	cross references to normal
		settings (already have entry to check for				TEMP].	for item [PBN].
		leaks)?)				-	
		2) Evel Tank Fillen Neck and Interior				3) Related Replace Fuel	1) IF LEAK GETS TOO
		2) Fuel Tunk Filler Neck and Interior Side of Gas Can: Is starting to rust				section [PBN - TEMP]	REPLACE SHOCKS
		badly PBN – TEMP].					$(\sim \$1000) - SEE MY WEB$
						3) Related Replace the Stock	PRINTOUTS [PBN -
		3) Fuel Filter: Replace it more often				Sintered Bronze Fuel Filters	TEMPJ.
		tank's filler neck and σ as can is rusting				in Never section [PBN]	1) **Note: Since the
		causing filter to get dirty faster) [PBN –					suspension units/shock
		TEMP].				5) Related Replace Air	absorbers are sealed, they
		1) Value Covers: Tighten holts at every				Cleaner entry in 10,000 Miles section [PBN]	do not require filling [F1]
		oil change (keep coming loose******)				TEMP].	page 14-52-01 - TEMI J.
		[PBN/MECH – TEMP].				-	1) ***Note: Panteras came
							equipped with both
		5) Air Filter: Check to see if so dirty need to change at 5000 miles instead of					adjustable and non- adjustable shock absorbers
		10,000 miles**** [PBN – TEMP].					(the later cars used
							"Telecar" brand shocks and
							had no choice of setting, the
						***** Addition (There	earlier cars used Aristone
						wasn't room for this in Notes	precise rate) [PITI Group
						column -PBN):	14 Article #6 - TEMP].
						2) I ant 2 times shooked this	1) ****Note, Ducious
						5) Last 2 times checked this (95,000 & 100,000 miles) it	awner replaced all 4
						was OK to last 10,000 miles	original shock absorbers
						without getting too rusty.	with Hall Pantera
						Might can delete this temp	adjustable (knob
						entry [PBN - IEMP].	slotted screw adjustment)
						4) *******Note: is this still a	shocks, and took spacers
						problem since switched to	out of the shocks to lower
						DeTomaso logo valve	the car all around [PBN -
						Covers: [FDIN - IEMIF].	i Livir J.
						5) *****Note: Air filter	1) Can't refill my Hall
						seems to get dirty even	Pantera shocks, unless send
						quicker than 10,000 miles. If consistently dirty at 5000	Dack to factory [MECH].
						miles eventually move	2/3) WILL NEED TO RUST
						normal 10,000 miles Air	COAT OR REPLACE
						Cleaner entry to 5000 miles	RUSTING FILLER NECK
						section [PBN – TEMP].	AND GAS CAP EVENTUALLY WHEN DO
							CAN DELETE THIS TEMP
							ENTRY AND JUST USE
							NORMAL (10,000 MILES)
							FUEL FILTER FREQUENCY'S ENTRY
							[PBN - TEMP].
							See ******Addition

LOW [PBN].	[5000 PBN].	Printout "clean/unmarked-up" copy		PAPERWORK	*This checklist item entry
		(latest revision) of this checklist for use			is listed in this 5000 miles
PBN does		at next maintenance interval [PBN].			section so it will always be
					reviewed no matter which \geq
		Save (in trunk) printout of this checklist			10,000 mile interval comes
		(marked up to show what was actually			up since will always be
		performed) for latest completed			divisible by 5000 miles
		maintenance intervals \geq 10,000* miles,			[PBN].
		in case some of these long-term item(s)			
		were not done so will be able to tell how			
		long its really been since the			
		maintenance item was actually			
		performed [PBN].			

MEDIUM	[5000 PBN].	Inspect Wheels and Tires [FTI page 52-	See OM pages 55 "Wheels and Tires",	Tires Size (Front):	Tires (Front):	WHEELS AND TIRES	Note: Tires fitted as
[PBN].	IOM = 4000 or 4 months	00-01]; Chaol: Tire Weer/Condition (uneven	56/57/58 "Changing* a Wheel" [OM].	C 60 V 15 [OM page 72];	BF Goodrich	(GENERAL)	original equipment were
PBN does.	10M = 4000 or 4 months - 100 months - 100	wear, cuts, or broken fabric) and	See FTI pages 11-02-03 "Wheel	See Placard on Venicle [PSH Specs Section]:	(size 225/50R15	Related Tire Air Pressure	handling and maximum
except	tire condition frequently,	Balance [OM pages 44, 55].	Inspection" & "Tire Inspection", 11-02-	C60V15 (23-3/4" x 7") or similar	90H)***** [PBN	Check entry in Bi-Monthly	road-ability rather than long
balance	wheel balance at all times -		02 "Removal* ** and Installation	P225/60VR15 (25" x 7-1/4") [POTI	- Previous Owner].	section [PBN].	life (owners should be
	pg 55]; [FTI = when tires show	Wheel* hub nuts**** should be inspected and tightened to specification	(Wheels and Tires, & Removing Tire from Wheel sections)" 11-02-02	Group 12 "About Pantera Brakes – Part II:	Tires (Rear):	Related Clean Wheels and	advised not to expect tire
	uneven wear pattern (Item	Keep the wheels and hubs clean, Check	"Mounting** Tire to Wheel", 11-02-02	See PITI Group 11 Article #4	BF Goodrich	Tires entry in Bi-Monthly	other radial ply tires [TSB
	should be checked	for damage that would affect the runout	"Wheel Balancing", 53-05-01 "Torque*	"Pantera Detomaso L & GTS	Radial T/A 50H	section [PBN].	Bulletin 6 Article # 39].
	periodically and service	of the wheels, Inspect the wheel rims for	Wheel Nuts", 11-02-01 "Hoisting"	Optional Fitment & Setting" [PITI];	(size P305/50R15	Dalata J Datata Tima antara	Notes Wilson hash in the second
	page 52-00-011	IFTI page 11-02-03	[F11].	Tires Size (Rear)***:	– Previous Owner]	below [PBN]. (delete this ref	(connected to spindle) the
	[TSB = 4000 miles -	[].	See TSB Bulletin 5 Article #32 "Tire	H 60 V 15 [OM page 72];		if delete tire rotation entry –	wheel bolts onto via the lug
	Bulletin 5 Article #28].	Check wheel balancing [TSB Bulletin 5	and/or Wheel Replacement* **",	See Placard on Vehicle [PSH Specs		if keep rotation, note in first	nuts [MECH].
		Article #28].	Bulletin 7 Article # 56 "Care of Magnesium Wheels" Bulletin 9 Article	Section]; H60V15 (26" x 9") or similar		<u>column I don't do rotation</u>).	*Note: Only if take wheels
			# 72 "Self Adhesive Wheel Weights",	P255/60VR15 (26-1/2" x 8-1/2")		Related Tires item in DOT	off for some reason [PBN].
		Split this into separate (related) entries	Bulletin 10 Article # 85 "Rear Tire	[POTI Group 12 "About Pantera		Annual Inspection Renewal	
		for Tires and Wheels? (and does "holonoo go with "rotate tirge" antrol?	Matching" [TSB].	Brakes – Part I];		in Yearly section [PBN].	**Note: Only if take tire off
		balance go with Totate tires entry)?	See PPOR Chassis Items 2 "Tire	"Pantera Detomaso L & GTS		Related Stress Relieve	[PBN]
			Replacement" and 3 "Magnesium	Optional Fitment & Setting" [PITI];		Campy (Magnesium) Wheels	[].
			Wheels" [PPQR].	W7 10 1		entry in 50,000 Miles section	***Note: The Goodyear
				Wheel Balancing: It is mandatory that self-adhesive		[PBN].	"Arriva" tires used on the
				wheel weights be used in preference			pair – when replacing only
				to a clip-on design (to prevent			one rear tire it is important
				corrosion) [TSB Bulletin 7 Article #		***** Addition (Thora	to ensure the diameter of
				Galvanic action between balance		wasn't room for this in specs	with the opposite tire (if in
				weight and magnesium wheel		column -PBN):	service tire has a
				causes unsightly corrosion.			measurable degree of tire
				Application of water repellant		Mounting Tire to Wheel**: Clean rim with emery cloth	wear, the diameter must be verified [TSB Bulletin 10]
				wheel rim and to inside faces of		or fine steel wool [FTI page	Article # 85].
				wheels and hubs. Bonded wheel		11-02-03];	-
				weights specified for service		Coat new valve and sealing	Note: Hub nuts and axle
				11/2/19/5 [FFRQ Chassis item 4].		with RUGLYDE or similar	nuts are same thing (called
				Removing Tire From Wheel**:		rubber lubricant [FTI page	different depending on
				On demounting tire from wheel		11-02-03].	whether front or back), and
				rim, be sure that no metallic tool for disassembling the fire marks or cuts		Wheel Installation*	the lug nuts[MECH]
				the surface of wheel rim when it is		Apply light coating of	the fug huts[willer1].
				rotating for disassembly (a circular		protective grease between the	****Note: Previous owner
				scratch or groove could render the		hub and wheel [FTI page 11-	said need to "check the
				[OM page 57]:		Water resistant grease should	regularly (even with the
				Extreme care must be exercised		be applied to the inside faces	cotter pin they tend to get
				when removing or replacing tires on		of the wheels and hubs, both	loose which can throw off
				gouges resulting from improper use		their removal [TSB Bulletin	excessive tire wear), and
				of the tire machine may lead to		7 Article # 56].	"the rear axle nuts should
				subsequent failure of the wheel rim		D	be checked for proper
				(a vertical ram tire changer must be used to break the tire bead from the		Permissible Kun-out: .004 - 006 Ins [PSH Spees	torque fairly regularly" [PRN]
				rim as this design does not contact		Section];	
				the magnesium at any point) [TSB		Front brake lateral run-out of	*****Note: Think no
				Bulletin 5 Article #32];		the faces must not exceed	longer made, but may be
				replacing tires on wheels can nick		Maximum lateral runout of	lower speed rated tire. See
				or gouge the rim resulting in		the disc brake rotor	my tire & wheel Web
				subsequent cracking [PPQR Chassis		(measured with a dial	printouts for info if need to
				item 2].		indicator mounted on the wheel hub) must not exceed	replace [PBN].
				Wheel Nuts Torque (alternately and		0.008 inches (0.2mm) near	
				evenly)*:		the outer edge of the disc	
				43 to 58 ft-lb [FTI page 53-05-01, PSH Spece Section]		brake rotor [TSB Bulletin 1 Article #2]	
				r 511 Specs Section].		(need to determine which is	
				See ***** Addition [PBN].		best value to use, and bold it)	

LOW [PBN].	[5000 PBN].	Rotate Tires [PBN]. (If this is a valid maintenance item, add other stuff/notes/ref's supposed to do/applies whenever take wheels off car from Inspect wheels and tires entry above)	Rotate Tires front-to-front and rear-to- rear (different sizes) [PBN].See OM pages 56/57/58 "Changing a Wheel" [OM].See FTI pages 11-02-02 "Removal and Installation (wheels and tires)", 53-05- 01 "Torque Wheel Nuts", 11-02-01 "Hoisting" [FTI].See TSB Bulletin 7 Article # 56 "Care of Magnesium Wheels" [TSB].	Wheel Installation: Apply light coating of protective grease between the hub and wheel [FTI page 11-02-02]; Water resistant grease should be applied to the inside faces of the wheels and hubs, both front and rear, to facilitate their removal [TSB Bulletin 7 Article # 56]. Wheel Nuts Torque (alternately and evenly): 43 to 58 ft-lb [FTI page 53-05-01, PSH Snees Section]	WHEELS AND TIRES (GENERAL) Related Inspect Wheels and Tires/Wheel Balance entry above [PBN].	Supposed to rotate tires on Panteras? (note previous owner used to do it), and if so, how often?
	Every 10,000 Miles			· · ·		
LOW** [PBN].	[10,000 PBN]. [OM = 8000 or 8 months]; [TSB = 4000* miles - Bulletin 5 Article #28].	Road Test [OM, TSB Bulletin 5 Article #28].			CAR Related Annual Inspection Renewal entry in Yearly section (do they road test in annual renewal? – if so add cross refs) [PBN]. Related (i.e., is driving related) Steering Linkage (Check Steering Control) entry in 15,000 Miles section [PBN].	*Note: Assume was a one time thing at first 4000 miles of car [PBN]. **Note: Low priority since anything real bad would likely be noticed during routine driving [PBN].
VĀRIES [PBN].	[10,000 PBN]. [OM = 8000 or 8 months]; [TSB = 4000 miles - Bulletin 5 Article #28].	Check for water, oil, gasoline, brake and clutch fluid leakage [TSB Bulletin 5 Article #28]; Check for Water/Oil/Fuel Leakage (Visual Inspection) [OM]. Check for Shock Absorber* ** leakage [PBN]. Check for Transaxle Oil Leakage [PBN].			CAR; ENGINE (GENERAL); COOLING SYSTEM (GENERAL); FUEL SYSTEM (GENERAL); BRAKES (GENERAL); CLUTCH AND TRANSAXLE (GENERAL); SUSPENSION (SHOCK ABSORBER) Related Garage Floor Leak Indication entry in Bi- Monthly section [PBN]. Related Check Shock Absorber Leak entry in 5000 Miles section [PBN - TEMP]. Related Clean/Degrease Engine and Transaxle entry in Yearly section [PBN].	Note: Previous owner installed stainless steel flex brake lines [PBN]. *Note: Since the suspension units/shock absorbers are sealed, they do not require filling [FTI page 14-32-01]. ** Note: Previous owner replaced all 4 original shock absorbers with Hall Pantera adjustable (knob adjustment rather than slotted screw adjustment) shocks, and took spacers out of the shocks to lower the car all around [PBN].

MEDIUM	[10 000 PBN]	Lube** Clutch Withdrawal Shaft*		CLUTCH AND	*Note: This refers to the
[PBN]	[10,0001211].	[OM]		TRANSAXLE	cross shaft in bell of
[1 D].	[OM = 8000 or 8 months]	[0.11].		(what component?)	transayle [MECH - Pantera
	[off off of off officiality]	Does this belong with (combined into)		(what component:)	Parts Connection (BD):
		one of the other clutch/ZE adjustment		Related Re-Grease the Twin	This is cross shaft across
		entries instead of being on its own?		Needle Bearings entry in	hellhousing opening
		chures histead of being on its own:		50 000 Miles section [DDN]	with drawal farly where
		Is luking the needle bearings the same		50,000 Miles section [FBN].	hallhausing compacts to
		thing as this ar just related?		Dalatad Chaols Claan and	transayla inside housing
		thing as this, of just related? - If hot		Related Check, Clean, and	Introl production
		same thing then need to note to NUT		Re-Grease the I win Needle	[MECH - PPC (Colorado)];
		lube the 2 zerk fittings I had added to		Bearings entry in when	Clutch withdrawal Shaft is
		lube the twin needle bearings for this		I ransaxle Removed section	same thing as "Shift
		lube clutch withdrawal shaft entry		[PBN].	I runion" (on left hand side
		since that won't lube this and also			near header) [MECH -
		since using those zerk fittings has a		Is this related to replacing the	Wilkenson Pantera].
		special warning about how much lube		pilot bushing in Special	(is the "shift trunion"
		to use that's not in this section.		section?	description referring to the
					same thing as the other two
					descriptions?)
					**Note: Some ZFs , if
					modified, have a lube (zerk)
					fitting - if not modified no
					way to lube it despite what
					OM says) [MECH - Pantera
					Parts Connection (BJ)];
					Lever sticks out at end (put
					in 1 st gear to lube, turn in
					2 nd gear and lube) [MECH -
					PPC (Colorado)]:
					Can't lube clutch
					withdrawal shaft unless
					take transaxle apart [MECH
					- PPC (Nevada)]
					(which is way to do it? $-$ if
					can't be done unless take
					ZF out move this entry to
					Special section)
					<u>special section</u>

INGH [MECH].	[OM = 8000 or 8 months]; [FTI = 8000 or 8 months – page 52-00-03; Adjust whenever the clutch does not disengage properly, or when new clutch parts are installed – page 16-02-03]; [TSB = 4000 miles - Bulletin 5 Article #28]; [PITI = occasionally when driving the car (check clutch pedal play) [PITI Group 16 Article #9]; [ZF = regularly (check clutch pedal play) – ZF Section III].	 Check the Specified Clutch Fedal Flay (clutch should engage and disengage completely) [ZF Section III]; Check/Adjust Clutch Pedal Free Play [FT1 page 52-00-03]; Check Clutch Free Travel [TSB Bulletin 5 Article #28]; Adjust Clutch Pedal Free Travel (adjust length of push rod) [FT1 page 16-02-03]; Adjust Slave Cylinder Push Rod Length [TSB Bulletin 10 Article #88]. Adjust clutch slave cylinder, and make sure there is free play at the other (master cylinder) end of the system [POTI Group 16 "Clutch Maintenance"]. Measure/Adjust gap between the clutch dise and the pressure plate (check to be sure the clutch pedal returns all the way when you release it – pull up on the pedal with your hand after depressing it, if it comes up any more check the pedal return spring around the shaft at the top of the pedal) [PITI Group 16 Article #9]. 	 See OM page 34 'Clutch Fedal Free Travel Inspection and Adjustment" [OM]. See FTI page 16-02-03 "Adjustments (Clutch Pedal Free Travel)" [FTI]. See PSH page 25 "To check and adjust free pedal travel" [PSH]; See PSH page 6 "Interior – Service Accessibility (Pedal Accessibility)" [PSH]. See TSB Bulletin 10 Article # 88 "Clutch Adjustment", Bulletin 10 Article # 89 "Clutch Pedal Effort Reduction Kit", Bulletin 10 Article # 90 "Clutch Withdrawal Mechanism" [TSB]. See PITI Group 16 Article #4 "Clutch Adjustment", Group 16 Article #9 "Understanding, Troubleshooting and Adjusting your Clutch Linkage" [PITI]. See POTI Group 16 "Clutch Maintenance" [POTI]. 	 Predia Pree Play: 1/4 to 7/16 inch (equivalent to 0.102 to 0.106 inch of release/withdrawal lever clearance) [OM page 54, FTI page 16-02-03, PSH page 25.]; 1/4 to 7/16 inch [PSH Specs Section]. Release (Withdrawal) Lever Clearance/Gap: 0.102 to 0.106 inch [TSB Bulletin 10 Article # 88]; Most service people shoot for 1/16 to 1/8 inch (and IF you will keep an eye on this adjustment regularly keep to the 1/16 side) [POTI Group 16 "Clutch Maintenance"]; Manual calls for 1.02 to .106 inches (but use less, about a 1/16 inch*** [PITI Group 16 Article #9]. Push Rod Free Play: 3/4 inch [FTI page 16-02-03]. (which push rod does this refer to? - try to combine) Master Cylinder Push Rod Travel: Push rod in the master cylinder MUST be allowed to come all the way out when the pedal is released (whether you have the clutch effort reduction system or not) [POTI Group 16 "Clutch Maintenance"]. Master Cylinder Push Rod (new type) Assembled Length Setting: 2.9 inches [TSB Bulletin 10 Article # 89]. Slave Cylinder Push Rod Length (from center of hole to the end): 3.07 inches to 3.09 inches [TSB Bulletin 10 Article #88, PITI Group 16 Article #9]. Air Gap Between the Pressure Plate, the Clutch Disc, and the Flywheel (when the clutch is fully disengaged): .040* inches (clutches should have as a minimum), .060 inches (high performance application) [POTI Group 16 "Clutch Maintenance"]; At least .050** inches for street use and .060 inches for competition [PITI Group 16 Article #9]. (need to determine which is best value to use, and bold it) 	TRANSAXLE (CLUTCH) Related Lubricate Clutch Linkage (under dashboard) entry in 15,000 Miles section [PBN]. Related Lubricate/Repair the Effort Reduction Linkage in 50,000 Miles section [PBN]. Related Coat the Clutch Pedal Return Spring with Anti-Seize entry in 50,000 Miles section [PBN].	 wusully have about 0.26 inches [POTI Group 16 "Clutch Maintenance"]. **Note: You probably can't get that in a Pantera, but hopefully will have more than .026 inches (if you don't have at least this much something is very wrong) [PITI Group 16 Article #9]. ***Note: Clutch wear makes this gap smaller so you must check it regularly if you use a small gap) [PITI Group 16 Article #9]. Note: Clutch Disc, Clutch Release Bearing, and Clutch Pressure Plate replaced when engine rebuilt at 80,000 miles [PBN]. Note: I replaced clutch master cylinder with a Hall Pantera CNC master cylinder [PBN].

MEDIUM [PBN]. (should be high?)	[10,000.PBN]. (need to determine if this is best frequency – I just made a guess – may need to combine into lube u-joints entry in 5000 miles section if that isn't too frequent)	Diagnose bad halfshaft universal joints (disassemble for inspection if necessary*) [PITI Group 15 Article #2]; Check Condition of the rear halfshaft outboard universal joints (disassemble and repack the trunions if in doubt about condition) [PITI Group 15 Article #1]; Check Your U-Joints for Failures Ready-To-Happen [POCA NL Apr 2002 – Attachment 23 "POCANLapr2002etc"].	See PITI Group 15 Article #1 "Rear Halfshaft Universal Joints", Group 15 Article #2 "Driving Axles" [PITI]. See POCA NL Apr 2002 "The Five Most Neglected Maintenance Areas in your Pantera (Check your u-joints for failures ready-to-happen) - Attachment 23 "POCANLapr2002etc" [POCA NL].		DRIVING AXLES AND DRIVE SHAFTS (UNIVERSAL JOINTS) Related Lube Drive Shaft Universal Joints entry in 5000 Miles section [PBN].	Note: "Drive Axles" are referred to as "Half-Shafts" in mid-engine applications (like Pantera) [PITI Group 15 Article #2]. Note: There are no u-joints on the front [MECH]. Note: The left and right axle halves may have been reversed (solid shaft portion of the half shaft near the transaxle and the sleeve portion toward the wheel) in order to put the "Mind Train Big Throats Exhaust System" on [PBN- Mind Train Enterprises Big Throats Installation Instructions]. Note: Previous owner replaced 2 rear (either inner or outer) u-joints with different design from Hall Pantera [PBN]. *Note: Slightly worn U- joints are impossible to detect without removal [PITI Group 15 Article #2].
LOW [PBN].	[10,000 PBN]. [FTI = 8000 or 8 months].	Lubricate & Free-up Exhaust Control Valve [FTI].			ENGINE?, FUEL SYSTEM? (component?)	Note: Previous owner removed vacuum smog control stuff [PBN]. (does this apply to this entry? – MECH thinks this valve was probably removed, if so move this entry to "Never" section)

MEDIUM	[10 000***** PBN]	Replace* Air Cleaner***** (clean the	See OM page 51 "Air Cleaner" [OM]	Air Filter***	FUEL SYSTEM (AIR	*Note: Cleaning the air
[PBN]	[10,000 1211].	inside of the body and check that the	bee ont page of the cleaner [onlj.	NAPA Gold 2063**** [ORIG].	CLEANER AND FILTER)	cleaner filter element is not
[]	[OM = 8000 or 8 months]	cover seal is not damaged) [OM pages	See FTI page 24-01-03 "Cleaning and	(need to find thicker		recommended it should be
PBN does	(more frequently in dusty	45. 51]:	Inspection (Air Cleaner)", 24-41-01	(performance?) filter size that fits in	Related Replace Crankcase	replaced at the specified
	areas)]:	Replace* Carburetor Air Cleaner	"Removal and Installation (Air Cleaner	air cleaner housing more snugly)	Emission Filter in Air	mileage intervals [FTI page
	[FTI = 12,000 or 12 months]	Element [FT]]:	and Filter Element)" [FT]]		Cleaner entry in Never	24-01-03]
	(more often if operated in	Install a new filter element in the air		Retaining Nut Torque:	section [PBN]	
	severe dust conditions) or	cleaner body, if required [FTI page 24-	See Attachment 2 "Pantera Tune Up	Moderately tighten [OM page 51]		**Note: I replaced
	if it becomes clogged or	41-01].	Ideas (Carburetor Air Cleaner)" [WEB].		Related Check Air Filter	carburetor with a Hollev
	restricted].	1		Cleaning Filter Element:	entry in 5000 Miles section	600 [PBN].
		Clean the Air Cleaner Body and Cover,	See Holley 600** Carburetor	Blown clean using compressed air	PBN - TEMP].	
	[Hollev 600** Carburetor	Inspect the air cleaner body and cover	Installation and Adjustment Instructions	[PBN – Holley 600 carburetor		***Note: Previous owner
	Installation and Adjustment	for distortion or damage at the gasket	page 3 "Caution" [PBN – Holley 600	Installation and Adjustment	Related Keep Carburetor in	replaced the original air
	Instructions = Air cleaner	mating surfaces (replace body and cover	carburetor Installation and Adjustment	Instructions page 3].	Good Operating Condition	cleaner with one that would
	filter elements should be	if they are damaged beyond repair),	Instructions].	101	entry in 15,000 Miles section	fit with the Edelbrock
	blown clean at 6000 miles,	Inspect filter for any splits or cracks (if		Cleaning Air Cleaner Body and	[PBN].	Torker manifold when he
	replaced at 12,000 miles to	split or cracker, replace it) [FTI page		Cover:		changed carburetor and
	assure maximum protection	24-01-03].		Solvent or compressed air [FTI	Related Check Air Cleaner	intake manifold (I replaced
	- page3]. Should I add a			page 24-01-03].	Temperature Control entry in	that one with an
	blow clean with	Inspect the air cleaner to carburetor			15,000 Miles section [PBN].	aftermarket Pantera script
	compressed air entry at	mounting gasket (install new one if				air cleaner), therefore some
	5000 miles per Holley carb	required) [FTI page 24-41-01].				of the references may not be
	instructions?					applicable [PBN].
						****Note: NAPA 2063
						equivalents are:
						AC A335C, FRAM CA114,
						Motorcraft FA41, Purolator
						A50080, WIX 42063 [NAPA
						Filter box].
						*****Note: Assume means
						to replace air cleaner's
						element/filter [PBN].
						*****Ninta. My ain Glean
						seems to get dirty fast (see
	1					also Attachment 17 "Filthy
	1					Engine Room") so used
						10 000 miles instead of
						15,000 miles [PRN/WFR]
				1		15,000 miles [1 DIV/WED].

MEDIUM	[10,000***** PBN].	Replace* Fuel Filter [OM];	See FTI page 53-04-01 "Fuel Filter", 24-	Fuel Filter***** ****:	Fuel Filter:	FUEL SYSTEM (FUEL	*Note: The one-piece in-
[PBN].	-	Replace* Fuel System Filter [FTI].	51-01 "Removal and Installation (Fuel	Quality in-line fuel filter such as	Purolator	FILTER)	line fuel filter does not have
	[OM = 8000 or 8 months];		Filter)" [FTI];	Holley part number 162-524 [PBN	Proformance Pro-		a replaceable filter element,
	[FTI = 12,000 or 12 months	Make sure fuel filter is not clogged or		- Holley 600** Carburetor	Fuel Fuel Line	Related Keep Carburetor in	and cannot be cleaned,
	– page 52-00-02;	damaged [FTI page 24-30-01] (is this a	See Attachment 2 "Pantera Tune Up	Installation and Adjustment	Filter*** (Pro	Good Operating Condition	therefore the filter must be
	If it becomes clogged or	troubleshooting, not maintenance step -	Ideas (Carburetor Fuel Filter)" [WEB].	Instructions page3];	#805, for engines	entry in 15,000 Miles section	replaced as a unit [FTI page
	restricted – page 53-04-01	therefore delete off list?).		Speed shops have racing (fuel filter)	with 5/16" fuel	[PBN].	24-30-01, 24-51-01, 53-04-
	and 24-51-01;	Charle for restriction in fuel supply from		units that will vastly outflow the	lines) [MECH –	Related Change Field Filter	01].
	alogged or demograd page	the tenk and make sure the tenk is		and glass ones, have	though to see if	<i>(due to gas tank filler neek</i>	**Noto: I wan lagod
	24-30-01	venting properly [FT] page 24-30-02] (is		and basically pay for themselves in	hest]	rust) entry in 5000 Miles	carburetor with a Holley
	If in doubt that it has been	this a troubleshooting, not maintenance		trouble not caused [POCA NL Apr	Purolator Fuel	section [PBN - TEMP].	600 (does not contain in
	changed within the	step – therefore delete off list?).		2002 – Attachment 23	Filter****		line morain fuel filters)
	recommended maintenance			"POCANLapr2002etc"].	(#F10024) (will	Related Inspect Fuel Lines &	[PBN – Holley 600
	mileage interval - page 24-			_	also work, but is	Connection entry in 15,000	carburetor Installation and
	30-01].				not as good of a	Miles section [PBN].	Adjustment Instructions].
					filter as Purolator		***)
					Pro #805) [MECH].	Related Replace the Stock	***Note: This filter is
						in Hollow Carburators antry	changed when it becomes
						in Never section [PBN]	visibly dirty or every 5000
							miles (do not use on fuel-
							injected systems). Has
							replaceable filter element
							(use "A Long" filter
							replacements) [PBN –
							Purolator Pro #805 filter
							filter that will last 10 000
							miles or move this entry to
							5000 miles section).
							<u></u>
							****Note: Stock fuel line is
							5/16" ID [PBN – WEB].
							***** Note: This filter is
							recommended to be
							or manufacturer's
							recommended change
							interval [PBN – Purolator
							#F10024 filter package].
							1 0 1
							*****Note: Is easy and
							cheap to change fuel filter
							(and generic fuel filters
							typically recommended to
							be changed every 10,000
							miles), so used 10,000 miles instead of 15,000
							miles just to be extra
							safe[PBN].
							···· ›[·]·
							******Note: The small
							chrome and glass (external
							to carburetor) fuel filters
							are subject to breakage of
							the glass cylinder and/or the
							uses shall that holds the
							flow capacity of these
							filters is really too low for a
							performance engine [POCA
							NL Apr 2002 – Attachment
							23 "POCANLapr2002etc"].

[PBN]. [OM/FTI = 8000 or 8 months]; [TSB = 4000 miles (check electrical system & cooling fans) - Bulletin 5 Article #28]. [PTTI = Lucas** cooling fans sometimes have a life span as low as 5000 miles or so]. [TSB = Prior to replacement of a new fuse (check spring tension in the fuse holder) - Bulletin 6 Article # 47]. [WEB = Periodically (clean all Lucas parts) - Attachment 16A "Lucas Wiper Electrical"].	 Check Electrical System [ETI]. Make sure that Cooling Fans are working properly [PITI Group 27 Article #2]. Check For Clean and Tight Wiring Connections at the alternator****, regulator****, and engine (is this for troubleshooting, not routine maintenance?) [FTI page 31-01-01]; Check and Tighten all Alternator**** Relay and Battery (is this for troubleshooting, not routine maintenance?) [FTI page 31-01-01]; Check and Tighten all Alternator**** Connectors at the Starter**** Relay and Battery (is this for troubleshooting, not routine maintenance?) [FTI page 31-10-01]. Regulator Calibration Test*** (is this for troubleshooting, not routine maintenance?) [FTI page 31-40-02]. Replace or clean any (pointed Italian fuses) fuses that have corrosion, and the fuse retainer should be given a little squeeze so that there is sufficient pressure for good continuity [PBN – Based on info in PITI Group 27 Article #14]; Check and restore as necessary spring tension in the fuse holder (prior to replacement of a new fuse) [TSB Bulletin 6 Article # 47]; Removal and replacement of fuses may result in some loss of spring tension in the fuse holders. The tension should be checked and restored as necessary by gently pressing the two holders inward [PPQR Electrical item 15]. Clean all Lucas Electrical Parts (headlight limit switches, windshield wiper motor multiconnector******, contacts, etc.) [PBN/WEB – Attachments 16A "Lucas Wiper Electrical", 16B "Lucas Headlight Switches"]. (need to find out other Lucas present to check (OM/FTI didn't that I could see)? See also electrical related stuff I listed under Annual Inspection in Yearly Section - supposed to be for this? 	See OM page 64 Electric System [OM]. See FTI page 31-01-01 "Charging System General Service Testing (Visual Inspection)", 31-01-02 "Ammeter- Alternator Charging System", "Tests Using a Voltmeter", 31-10-01 "Alternator (Testing)", 31-40-01 "Adjustments [Electro-Mechanical Regulator***)" (are these troubleshooting, not routine maintenance?), 34-30-01 "Removal and Installation (Individual Fuses)" [FTI]. See TSB Bulletin 6 Article # 47 "Fuse Holders Losing Tension" [TSB]. See PSH page 3 "Interior – Service Accessibility (Engine Accessibility)", page 7 "Electrical System (Fusebox Accessibility)" [PSH]. See Attachments 16A "Lucas Wiper Electrical", 16B "Lucas Headlight Switches" [WEB].	Contact Cleaner (Lucas parts): Freon Contact Cleaner from Radio Shack [WEB – Attachment 16B "Lucas Headlight Switches"]; TV Contact Cleaner [WEB - Attachment 16A "Lucas Wiper Electrical"]. Fuse Sizes*: See OM page 65 "Fuse – Panel" [OM]; See FTI page 34-30-01 "Fig 1 Fuse Replacement - Fuse Replacement Legend" [FTI]; See PSH Specs Section "Electrical Circuit Protection" [PSH]; <i>8-10 amps (auto-dimming rearview mirror in-line fuse) [PBN].</i>	**************************************	MAIN WIRING HARNESSES AND CIRCUIT PROTECTION (GENERAL); COOLING SYSTEM (COOLING FANS); CHARGING SYSTEM (ALTERNATOR, REGULATOR); AUXILIARY EQUIPMENT (WINDSHIELD WIPER); LIGHTING SYSTEM (HEADLIGHT SYSTEM) (HEADLIGHT SYSTEM) Related Electrical stuff to check listed in Annual Inspection Renewal listing in Yearly section [PBN]. Related Check Operation of Lights and Turn Signals entry in Yearly section [PBN]. *******Addition (There wasn't room for this in Notes column -PBN): Note: Previous owner augmented horn with Fiamm electric air horns (sound with the existing horns); Moved water temperature sender from surge tank to front of engine block; Installed Cibie Z-Beam quartz headlights (including adding relays in front trunk (required per Cibie instructions) to avoid burning out the stock Pantera headlight relays or wiring) - I installed the Vader headlight modification in place of the Cibie headlights, but left in relays; Installed custom (homemade) burglar alarm (1 disconnected it, but its components are still there such as a wooden block inside center console with relays/wires etc); Installed 12 Watt Craig Powerplay amplifier and Pioneer (Flux Craig?) speakers (speakers since replaced, assume amplifier has been removed); Rearranged order of the console instruments (oil pressure, water temperature, amp, and fuel gauges);	 *Note: Vehicles before approx. chassis number 1600 may have 30A circuit breakers for window motors [PSH Specs Section]. **Note: My Lucas cooling fans/motors have been replaced with other brands (One is a Mirriah from Hall Pantera, previous owner replaced the other one) [PBN]. ***Note: The electro- mechanical regulator is factory calibrated and sealed and cannot be adjusted – if it does not pass the Regulator Calibration Test it must be replaced [FTI page 31-40- 01 & 02]. ****Note: I replaced alternator and voltage regulator with an alternator that has a built in voltage regulator with an alternator that has a built in voltage regulator with an alternator that has a built in voltage regulator, and disconnected the generator light in the speedometer [PBN]. Note: I had my (inoperable on 1973 Panteras) Fan light on Speedometer hooked up so that it comes on when 2nd (higher temp sensor) Radiator Fan comes on; I replaced radiator fan (higher) temp sender with modern style (using adapter from Pantera vendor); I installed a Hall Armrest with Oil Temperature Gauge and clock; I replaced the Ammeter with a "improved design" one from Hall Pantera; I installed a Viper Burglar Alarm; I added an additional resistor to the heater/AC fan blower to slow down the intermediate speed; I added Hall Pantera Top Sound Bar Speaker System; I installed the Vader headlight modification; I added roof console with map lights (ited into dome courtesy light power); I replaced inside rearview mirror with electric auto-
	Section - supposed to be for this?				has been removed); Rearranged order of the console instruments (oil pressure, water temperature, amp, and fuel gauges); Installed sun visor mounted radar detector (was removed, but power wire still under headliner trim) [PBN].	I added roof console with map lights (tied into dome courtesy light power); I replaced inside rearview mirror with electric auto- dimming mirror (with in- line fuse) [PBN]. See ******* and ******* Additions [PBN].

LOW [PBN].	[10,000 PBN].	Check/Adjust Vehicle Trim. [OM pages	See OM page 68 "Wheel Geometry and	See OM page 69 "(Caster Angle,	STEERING (component?)	Note: Previous owner
		45, 68];	Vehicle Trim" [OM].	King-pin, front/rear wheel camber,		replaced removable cross
	[OM = 8000 or 8 months];	Check Vehicle Trim [PSH page 30].		front/rear wheel toe-in specs)"	Related Wheel Alignment	member (engine
	[PSH = after first 4000		See PSH page 30 "Vehicle Geometry	[OM] (see if this applies to vehicle	entry below [PBN]. Are these	compartment spreader bar)
	miles, then after each		and Wheel Trim" [PSH].	trim - if not delete this ref, if does,	supposed to be combined into	with Hall Pantera
	subsequent 8000 miles, and			possibly list each of these as	<u>1 entry – i.e., are they the</u>	adjustable cross brace
	after suspension servicing].		See FTI page 11-02-01 "Hoisting"	separate spec and add other specs	exact same maintenance	(camber bar) [PBN]. (see if
			[FTI].	from PSH etc listed in wheel	operation, or are they just 2	this applies to vehicle trim
				alignment entry);	related things (note I split up	 if not delete this).
					wording of 1 quote from PSH	
				See PSH page 30 "front	"Check Wheel Geometry and	
				suspension" specs, "rear	Vehicle Trim" [PSH page	
				suspension" specs [PSH], See PSH	<u>30])?</u>	
				Specs Section "Front Suspension",		
				"Rear Suspension" [PSH] (do these		
				specs apply to this item, and if they		
				do are they maint or repair related?		
				- possibly add the individual		
				<u>specs)</u> .		
				Charlin - Tring		
				Checking Irim:		
				To check vehicle trim place vehicle		
				on level surface, thes must be		
				board (or 154 lb weights - 88 lbs on		
				each seat and 66 lbs in each foot		
				wall) tank half full and no luggage		
				[OM page 68 PSH page 30]		
				[Owi page 00, 1 bit page 50].		
				See PITI Group 11 Article #4		
				"Pantera Detomaso L & GTS		
				Optional Fitment & Setting" [PITI]		
				(see if this applies to vehicle trim –		
				if not delete this ref).		

HIGH [MECH].	[10,000 PBN]. [OM = 8000 or 8 months]; [PSH = During routine servicing].	Check Steering Rack inner ball joints Rubber Bellows for leaks (lubricate* if necessary) and ensure that the ball pins move freely [PSH page 33]; Replace defective boots and fill** rack [PITI Group 13 Article #3]; Check Steering Unit Rubber Boots for Leakage and Damage [OM].	See PSH page 34 "Checking for wear and damage (cuts and punctures) and dismantling (Bellows)" [PSH]; See FTI page 13-01-01 "General Manual Steering Service (General Information)" [FTI]. See PITI Group 13 Article #1 "Rack & Pinion Maintenance" (way to top up oil level without taking the rack & pinion assembly out of the car, pages 7 & 8), Group 13 Article #3 "Steering Play" (way to fill rack without pulling it out of the car, page 4) [PTII] Is this "Steering Gear" lubricant what you also use for boots/bellows (if not delete this specs ref)?.	Steering Gear Lubricant: SAE 90 E.P. Gear Oil [FTI]; SAE 90 oil (extreme pressure type), Grease must not be used as a lubricant [PSH page 37]; Extreme Pressure 90 wt gear oil [PITI Group 13 Article #3]. <u>Is this</u> "Steering Gear" lubricant what you also use for boots/bellows (if not delete this specs ref)? Steering Gear Oil Capacity: 1/3 pint + 10% (this amount should not be exceeded as overfilling may cause the bellows to burst or be forced off the main housing) [PSH page 37]; 1/3rd pint plus 10% [PITI Group 13 Article #3] <u>Is this "Steering Gear"</u> lubricant what you also use for boots/bellows (if not delete this <u>specs ref)?</u> . Steering Gear Mounting Bolts Torque: 20 ft-lbs [PSH Specs Section]. Tie Rod Ends Torque:	STEERING (STEERING GEAR BELLOWS) Related Lubricate Steering Arm Stops entry in 15,000 Miles section [PBN]. Related Check/Lube Steering Linkage entry in 15,000 Miles section [PBN].	Note: Assume Boots and Bellows is same thing [PBN]. *Note: Oil is introduced during manufacture and no further lubrication required unless damage to the bellows is encountered. Providing the bellows are not damaged by stones thrown up from the road, and remain oil tight, no topping up of the oil is required [PSH page 33]. **Note: Most Pantera steering racks have no oil left in them due to defective boots and seepage [PITI Group 13 Article #3].
			<u>boots/bellows (if not delete this specs</u> <u>ref)?</u> .	page 37]; 1/3rd pint plus 10% [PITI Group 13 Article #3] <u>Is this "Steering Gear"</u> <u>lubricant what you also use for</u> <u>boots/bellows (if not delete this</u> <u>specs ref)?</u> . Steering Gear Mounting Bolts Torque: 20 ft-lbs [PSH Specs Section].		**Note: Most Pantera steering racks have no oil left in them due to defective boots and seepage [PTTI Group 13 Article #3].
				Tie Rod Ends Torque: 43 ft-lbs [PSH Specs Section].		
				.002005 Crush [PSH Specs Section].		
				Rack Yoke Clearance: .002005 [PSH Specs Section]. (do these 4PSH Specs Section things directly above apply to this maint item, and if so are they maint info or repair info?)		

LOW [PBN].	[10,000 PBN]. [OM = 8000 or 8 months]; [FTI = Poor ride and handling characteristics or abnormal tire wear (Item should be checked periodically and service performed when required) – page 52-00-01]; [PSH = after first 4000 miles, then after each subsequent 8000 miles, and after suspension servicing]; [TSB = 4000*** miles (alignment) - Bulletin 5 Article #28 & 33]; [PPQR = Dealers must check suspension alignment at pre-delivery and again at 4000 miles – Chassis Item 1]. [POTI = don't know how often (adjust "bay brace" bar) – Group 14 "Wheel Alignment Basics" page 2].	Check Wheel Geometry [PSH page 30]; Check/Adjust Wheel Geometry [OM page 68]. Check Front/Rear Wheel Alignment [TSB Bulletin 5 Article #28 & 33]; Check Front/Rear Wheel Toe-In and Chamber [OM]. Check Front Wheel Alignment [FTI page 52-00-01]; Check Tracking [TSB Bulletin 2 Article # 10]. Adjust (Camber related) "Bay Brace" Bar******* [POTI Group 14 "Wheel Alignment Basics"].	See OM page 68 "Wheel Geometry and Vehicle Trim" [OM]. See FTI pages 53-05-01 "Check Front Wheel Toe-In", 13-01-03 "Adjustments" and "Front Wheel Alignment (Camber, Caster, & Toe-In)" and Rear Wheel Alignment******** (Camber, & Toe- In)", 11-02-02 "Removal and Installation (wheels and tires)", FTI page 53-05-01 "Torque Wheel Nuts*", 11-02- 01 "Hoisting" [FTI]. See PSH page 30 "Vehicle Geometry and Wheel Trim" [PSH]. See TSB Bulletin 2 Article # 10 "Wheel Alignment********, Bulletin 5 Article # 33, Bulletin 13 Article #33-S, TSB Bulletin 7 Article # 56 "Care of Magnesium Wheels*" [TSB]. See POTI Group 14 "Wheel Alignment***********************************	See OM page 69 "(Caster** Angle, King-pin, front/rear wheel camber, front/rear wheel toe-in specs)" [OM]; See PSH page 30 "front suspension" specs, "rear suspension" specs [PSH], PSH Specs Section "Wheel Alignment" [PSH]. (Add detailed specs from these to checklist?) Front Wheel Camber Adjustment: 1/8 degree negative to 1/8 degree positive [FTI page 13-01-03, TSB Bulletin 2 Article # 10, Bulletin 5 Article # 33]; 1/8 degree negative to 1/8 degree positive (when aligning a vehicle at curb load conditions) [Bulletin 13 Article #33-S, POTI Group 14 "Wheel Alignment Basics"]; 0 degree to 1/4 degree negative [PTTI Group 14 Article #6]. Front Wheel Caster** Angle Adjustment: 2-3/4 degrees positive (FTI page 13-01-03, TSB Bulletin 5 Article # 33]; 2-3/4 degrees positive (When aligning a vehicle at curb load conditions) [TSB Bulletin 13 Article #33-S]; 2-3/4 degrees minimum [PTTI Group 14 Article #6]. Front Wheel Toe-In Adjustment (using toe-in measuring bar): 1/8 inch (difference in distance between the wheels measured at both the back and front of the tires, the front measurement should be the smallest) [FTI page 13-01-03, 53-05-01]; 1/8 inch in (by adjusting steering tie rods) [TSB Bulletin 2 Article # 10, Bulletin 5 Article # 33]; 3/8 inch***** (when aligning a vehicle at curb load conditions) TSB Bulletin 13 Article #33-S, POTI Group 14 "Wheel Alignment Basics"]; 1/8 inch [PITI Group 14 Article #6]. Rear Wheel Camber Adjustment: 3/8 degree negative to 5/8 degree negative [FTI page 13-01-03, TSB Bulletin 5 Article # 33; 3/8 inch*****[;	********Addition (There wasn't room for this in Specs column – PBN): Rear Wheel Toe-In Adjustment: 1/8 inch to 3/16 inch [FT] page 13- 01-03]; 3/16 inch – 5/16 inch**** [TSB Bulletin 2 Article # 10]; 1/8 inch to 3/16 inch ***** [TSB Bulletin 5 Article # 33]; 1/8 inch to 3/16 inch (when aligning a vehicle at curb load conditions) [Bulletin 13 Article #33-S]; 1/4 to 3/16 inch [POTI Group 14 "Wheel Alignment Basics"]; 3/16 inch [PITI Group 14 Article #6]. Tracking: Front and rear tracks equidistant from the vehicle centerline and relative to each other within .025 inch (alternatively, a straight edge (or string) placed against the rear wheels should not show a significant variation at the front wheels – a maximum variation of ¼ inch is permissible [TSB Bulletin 2 Article #	STEERING (WHEEL ALIGNMENT) Related Vehicle Trim entry above [PBN].	Note: Assume "Chamber" (in OM) and "camber" is same thing [PBN]. Note: Toe-In and Camber is same as "Alignment", Wheel Geometry and Wheel Alignment is same thing [MECH]. <i>Note: Steve (Mechanic)</i> <i>can't do (take to alignment shop) [PBN].</i> *Note: Only if take wheels off for some reason (can do alignment without taking wheels off) (if supposed to do without taking wheels off, delete the stuff in this entry that only applies generically to wheel removal) [MECH]. **Note: Caster, both front and rear is pre-set, and under normal circumstances should not be altered [TSB Bulletin 2 Article # 10]. ***Note: the wheel alignment specifications in TSB Bulletin 5 Article 33 supersed those in Bulletin 2 Article # 10 [TSB Bulletin 5 Article #33]. *****Note: The wheel alignment specifications in TSB Bulletin 13 Article #33-S specifications supercede those in TSB Bulletin 5 Article #33]. *****Note: Aftermarket adjustable "bay brace" bars (sold by Pantera Vendors) can be preloaded to provide proper support to the rear suspension [POTI Group 14 "Wheel Alignment
			Engine compartment spreader bar was replaced with a Hall Pantera adjustable cross brace (camber bar) by previous owner [PBN]. ********Note: It is important to not over-torque the A-arm mounts when installing them/tightening the nuts down (they have to be loosened and tightened each time the rear wheels are aligned)	vehicle at curb load conditions) TSB Bulletin 13 Article #33-S, POTI Group 14 "Wheel Alignment Basics"]; 1/8 inch [PITI Group 14 Article #6]. Rear Wheel Camber Adjustment: 3/8 degree negative to 5/8 degree negative [FTI page 13-01-03 TSB	a straight edge (or string) placed against the rear wheels should not show a significant variation at the front wheels – a maximum variation of ¼ inch is nermissible [TSB	their removal [TSB Bulletin 7 Article # 56]. Wheel Nuts Torque (alternately and evenly)*: 43 to 58 ft-lb [FTI page 53- 05-01, PSH Specs Section]. See PSH Specs Section "Front Suspension" "Rear	change in front toe-in only) [TSB Bulletin 13 Article #33-S]. ******Note: Aftermarket adjustable "bay brace" bars (sold by Pantera Vendors) can be preloaded to provide proper support to the rear suspension IPOTI forum 14
			[POCA NL Sept 2001 page 20 (Attachment 21b)]; Structures feature internal reinforcement of one type or another that wouldd be virtually impossible to deform simply by over-tightening the nuts which secure the yokes to the chassis rails (there has long been speculation that the failures reported were caused by over-tightening, but that no longer seems to be a valid theory) [POCA NL July 2002 pages 9 & 10 (Attachment 21c)].	Bulletin 5 Article # 33****]; 3/8 degree negative to 5/8 degree negative (when aligning a vehicle at curb load conditions) [Bulletin 13 Article #33-S, POTI Group 14 "Wheel Alignment Basics"]; 3/8 degree – 5/8 degree**** [TSB Bulletin 2 Article # 10]; 1/2 degree to 3/4 degree negative [PITI Group 14 Article #6]. See ******** and ******** Additions [PBN].	Bulletin 2 Article # 10]. Bay Brace Bar (stock)******: Some type of mark to see if its moved may help****** [POTI Group 14 "Wheel Alignment Basics"].	Suspension", PSHJ (do these specs apply to this item, and if they do are they maint or repair related? – if so add the detailed specs to this?). See PITI Group 11 Article #4 "Pantera Detomaso L & GTS Optional Fitment & Setting" [PITI].	"Wheel Alignment Basics"]. See ********** Addition [PBN].
	Every 15,000 Miles						

LOW [PBN].	[15,000 PBN]. [OM = Occasionally (check) - page 35; Excessive hand brake lever travel or hand brake inefficiency (page 17)]; [ETL = Excessive foot**	Check Handbrake Linkage [OM page 45, TSB Bulletin 5 Article #28]; Check Parking Brake Cable Tension and Adjust if Required (if excessive foot** pedal travel required to hold or will not hold car) [FTI page 52-00-01]; Adjust through the appropriate points on hand brake linkage (if excessive hand	See FTI pages 53-01-02 "Lubricate Parking Brake Linkage, 53-05-01 "Parking Brake Adjustment", 12-70-01 "Adjustments (Parking Brake Linkage)" [FTI].		BRAKES (PARKING BRAKE LINKAGE) Related Emergency Brake item in DOT Annual Inspection Renewal entry in Yearly section [PBN].	*Note: Assume was a one time thing at first 4000 miles of car [PBN]. **Note: Assume "foot pedal" is generic wording, and actually refers to hand brake layer (PBN). Or does
	pedal travel required to hold or will not hold car (Item should be checked periodically and service performed when required) - page 52-00-01]; [TSB = 4000* miles (check) - Bulletin 5 Article #28].	hand blace finaling (in excessive land brake lever travel or hand brake inefficiency) [OM page 17]. Lubricate Handbrake Linkage [OM page 35]; Lubricate Parking Brake Linkage (all pivot and pulley points) [FTI page 52- 00-03].				the parking brake cable interfere with foot pedal working in this scenario?
	[FTI = 8000 or 8 months for Parking Brake lubrication – page 52-00- 03]; [OM = 4000* (lubricate) - page 45].					
MEDIUM [PBN].	[15,000 PBN]. [OM = Occasionally].	Lubricate Clutch Linkage (under dashboard) [OM].	See PSH page 6 "Interior – Service Accessibility (Pedal Accessibility)" [PSH].		CLUTCH AND TRANSAXLE (CLUTCH) Related Check Clutch Pedal Free Play entry in 10,000 Miles section [PBN]. Related Coat the Clutch Pedal Return Spring with Anti-Seize entry in 50,000 Miles section [PBN]. Related Lubricate/Repair the	Note: Clutch Linkage is different from Transmission Linkage [MECH].
					Effort Reduction Linkage entry in 50,000 Miles section [PBN].	

MEDIUM	[15.000 PBN].	Check Gearshift Linkage [OM page 45]:	See OM page 39 "Lubrication –	Cushioned Rod Bearing Lubricant:	CLUTCH AND	Note: "Gearshift Linkage"
[PBN].	L	Check Transmission Linkage [FTI pg	Transmission Remote Control Linkage"	Grease [OM page 39].	TRANSAXLE	and "Shift Linkage" is same
	[OM = 4000* miles (check)]	52-00-03, TSB Bulletin 5 Article #28].	[OM].		(TRANSAXLE	as "Transmission Linkage"
	gearshift linkage) – page	, ,		Center Shift Linkage Bushing	GEARSHIFT LINKAGE)	[MECH].
	45];	Check that the two sections of the gear	See FTI page 16-10-03 "Adjustments	Lubricant:	,	L J
	[FTI = 12,000 or 12 months]	shift rod are parallel (if not, adjust the	(Gearshift Linkage)" [FTI].	Grease [PITI Group 16 Article #7].		Note: Previous owner
	(check) – pg 52-00-03];	support bearing accordingly), check that		(is this bushing same as cushioned		insulated the gearshift
	[TSB = 4000* miles (check)	the support bearing is tight [TSB	See PITI Group 16 Article #7 "Adding a	rod bearing above (Steve wasn't		tunnel cover with fiberglass
	transmission linkage) -	Bulletin 2 Article # 14].	Grease Fitting to the Center Shift	sure)? – if so combine them)		[PBN].
	Bulletin 5 Article #28;	-	Linkage Bushing, Group 53 Article #1			
	Poor shifting affecting	Check gearshift universal joint bolts	"Lubrication Tips" [PITI].	Connecting Rod Support Bearing		*Note: Assume was a one
	primarily 1st or 3rd gear may	securing the front, intermediate and rear		Greasing Method:		time thing at first 4000
	be an indication of loose	universal joints to the connecting shafts	See PSH page 25 "Transmission	Use a hypodermic syringe (the type		miles of car [PBN].
	bolts (check gearshift	for tightness (particular attention should	Linkage" [PSH].	lubricant varies with application		
	universal joint bolts) -	be paid to the front universal joints		depending on viscosity you want,		**Note: If do this, only the
	Bulletin 9 Article # 70].	located beneath the console) [TSB	See TSB Bulletin 2 Article # 14 "Shift	e.g. high pressure moly/graphite		rearward facing boot is
		Bulletin 9 Article # 70].	Linkage Adjustments", Bulletin 9	based types) [PITI Group 53 Article		accessible, and only one
	[OM = Occasionally, or in		Article # 70 "Gearshift Universal	1];		side of the bushing gets
	the event of harshness of	Lubricate Transmission Linkage [FTI pg	Joints", Bulletin 11 Article #14-S "Shift	Use oil can with a flattened spout		greased, and the boot will
	the control linkage	52-00-01];	Linkage Adjustments" [TSB].	[PSH].		probably split as it ages
	(lubricate transmission	Lubricate Transmission Linkage				(unless add a Zerk fitting
	linkage) – page 39];	(cushioned rod bearing) [OM pages 35		Center Shift Linkage Bushing		modification) [PITI Group
	[FTI = When moving parts	& 39];		Lubricating Method:		16 Article #7].
	and connections are void of	Lubricate Connecting Rod Support		Slide a needle-like grease probe		
	lube or sluggish in action	Bearing [FTI page 16-10-03];		under the boot and apply grease**		
	(Item should be checked	Lubricate Connecting Rod Support		[PITI Group 16 Article #/];		
	periodically and service	Bearing on the Shift Linkage [PIT]		Grease it until a small amount of		
	performed when required)	Group 53 Article 1];		grease can be seen emerging from		
	(lubricate transmission	Lubricate Front Connecting Rod Support		under the rubber boots, both front		
	linkage) – page 52-00-01;	Bearing [PSH page 25];		and rear [P111 Group 16 Article		
	hearing requires periodic	DITL Crown 16 Article #7]		#/]. (Is this lubing bushing same as		
	hybrigation maga 16 10	[PTTT Gloup To Afficie #7].		greasing cushoned for bearing		
	nublication – page 10-10-	Clean and luba the 2 U. Joints on shift		approve (Steve wash t sure)? - 11 so		
	05], IPSH – pariodia	linkage that are exposed to dirt and read		<u>comoline memp</u>		
	(lubrication of connecting	splash [PITI Group 53 Article 1]		Connector/Register/Lock Nut		
	rod bearing)].	splash [1111 Group 55 Atticle 1].		Torque:		
	[PITI = As required with			Tighten register until it is secure		
	your normal lubrication			but not under strain [PSH page 26]		
	schedule (every other oil			e an ander on ander page 20].		
	change, or about each 6 to					
	8000 miles) (Re-grease the					
	center shift linkage					
	bushing) – Group 16					
	Article #71.					

UICU	[15.000/20.000* PDN]	Chaol/Paplace* ** *** Coolant	See OM page 21 "Cooling System	Cooling System Consoity:	Coolant Additive:	COOLING SYSTEM	*Nota: Chask applant laval
	[13,000/30,000 ⁺ PBN].	Condition & Destaction Choole If	Filling Drage dame" [OM]	Cooling System Capacity.	Weter Wetter? her	(CENEDAL)	- Note. Check coolant level
[PBN].		Condition & Protection. Check: If	Filling Procedure [OM].	6 3/8 Gallons [OM page 72];	water wetter by	(GENERAL)	and fill expansion tank bi-
	$[F \Pi = Check condition at$	Coolant is dirty or rusty in appearance,		25 1/2 Quarts [PSH Specs Section].	Redline [WEB -		monthly, Check coolant
	12,000 or 12 months,	the system should be cleaned and	See F11 page 27-01-03 "Filling Cooling		Attachment 8	Related Replace Coolant at	condition at 15,000 miles,
	replace at 24,000 or 24	flushed. The radiator cap should be	System" [F11].	Coolant Fluid:	"Pantera Cooling	Least Bi-yearly entry in Bi-	Replace at 30,000 miles or
	months (replace every 24	cleaned and the system refilled with the		40% Antifreeze – 60% Water (Use	System (The	Yearly section [PBN].	at least bi-yearly (see
	months regardless of	prescribed solution of Ford Cooling	See PSH page 13 "Filling an Empty	only permanent-type coolant that	Coolant)"].		separate entries) [PBN].
	mileage) pattern].	System Fluid and water. Replace: Drain	Cooling System" [PSH].	meets Ford Specification ESE-M-		Related Check Coolant Level	
		and Flush Cooling System, and Replace		97 B18-C. Do Not use Alcohol or		and Fill Expansion Tank	Note: will probably drive
	[PITI = Replace "worn-out"	Cooling System Fluid [FTI].	See PITI Group 27 Article #2 "The	Methanol anti-freeze or attempt to		entry in Bi-Monthly section	<30,000 miles every 2
	anti-freeze each year –		Pantera Cooling System", Group 27	mix them with the factory coolant)		[PBN].	years so the bi-yearly
	Group 27 Article #5].	Check the concentration of ethylene	Article #5 "Coolant Hoses" [PITI].	[OM page 72];			change should negate the
		glycol in the coolant [TSB Bulletin 8		Solution of 50% water and Ford		Related Check Coolant	need for this 30,000 miles
	[POCA NL Apr 2002 =	Article # 61].	See TSB Bulletin 2 Article # 13	Antifreeze [FTI page 53-04-01];		System Hoses & Clamps	change [PBN].
	Change antifreeze yearly -		"Cooling System Characteristics",	Ford Cooling System Fluid and		entry below [PBN].	
	POCA NL Apr 2002 -		Bulletin 8 Article # 61 "Coolant System	water [FTI page 52-00-02];			**Note: With respect to
	Attachment 23		 Overheating Conditions (Air Purging, 	Permanent antifreeze and water			filling system with coolant
	"POCANLapr2002etc"].		& Coolant sections)" [TSB].	mixture [FTI page 27-01-03];			and purge all air, TSB 2
	_			50-50 mixture of antifreeze and			Article #13 and TSB 3
			See Attachment 1 "Coolant Changing	water (at least 50% antifreeze, good			Article # 19 are WRONG -
			Email", and Attachment 8 "Pantera	idea to put in about 60% antifreeze)			use procedure described in
			Cooling System (Coolant Tanks, & Air	[PITI Group 27 Article #2];			TSB 8 Article 61 [PITI
			In System sections)" [WEB].	coolant mixture of approximately			Group 27 Article #2].
				50-50 water and ethylene glycol			
			ADD "WATER WETTER" COOLANT	(antifreeze) [TSB Bulletin 2 Article			***Note: I keep a flexible
			ADDITIVE [WEB - Attachment 8	# 13, Bulletin 8 Article # 61];			dipstick (rubber hose) for
			"Pantera Cooling System (The	See Attachment 8 "Pantera Cooling			checking coolant level in
			Coolant)"].	System (The Coolant)" [WEB].			expansion tank, and special
				(need to determine which is best			long/flexible funnel for
				value to use, and hold it)			nutting coolant in
				······································			expansion tank in front
				Checking Level			trunk [PRN]
				Check radiator coolant level with			n univ [1 Dity]
				engine cold [OM page 14 FTI page			Note: I keep gallon of
				53-04-01 TSB Bulletin 2 Article			nremixed 50-50
				#11 Bulletin 8 Article $#61$			water/antifreeze (to use to
				Check Level in Expansion Tank			top off coolant periodically)
				Using flexible dinstick*** [PIT]			in garage [PRN]
				Group 27 Article #21			in guruge [1 Div].
				Gloup 27 Afficie #2].			NOTE: NEVT TIME
				Coolant Tanks Laval:			DPAIN COOLING
				Top up the supply topk and partially			SYSTEM CHECK TO DE
				fill the expansion tank [DSU need			SISIEM, CHECK IUBE
				121.			THEPMOSTAT DEP
				15], Koon supply topk** filled at all			ATTACHMENT 8
				times and maintain			"DANTEDA COOLINC
				avpansion/recovery tents half fill-			TANTERA COULING
				TED Delletin 2 Article #111			SISIEM (CLEVELAND
				East tank must always he			TEMPI
				recutant must always be			I ENIFJ.
				Completely full [Owi page 14];			
				Expansion tank should be			
				maintained at a half filled level at			
				all times [1SB Bulletin 11 Article			
				#90 <u>]</u> .			
				Charles and the time of the l			
				Cneck concentration of ethylene			
				glycol:			
				Use an anti-treeze hydrometer			
		1		11SB Bulletin 8 Article # 611.			

LOW [PBN].	[15,000 PBN]. [FTI = 12,000 or 12 months (replace valve) - page 52- 00-02]. [FTI = Proper mileage interval (clean oil filler cap and oil separator) - page 21- 01-17].	Replace* PCV (Positive Crankcase Ventilation System) Valve [FTI page 52-00-02]. Clean PCV Oil Filler Cap and Oil Separator (in right valve cover if equipped) [FTI page 21-01-17].	See FTI page 21-01-17 "Positive Closed-Type Crankcase Ventilation System (Cleaning)" [FTI].	Wash Cap and Oil Separator: Low volatility, petroleum base solvent (do not dry with compressed air) [FTI page 21-01- 17].	ENGINE (CRANKCASE VENTILATION SYSTEM) Related PCV Valve item in DOT Annual Inspection Renewal in Yearly section [PBN].	*Note: Do not attempt to clean the crankcase ventilation regulator valve, it should be replaced [FTI page 21-01-17]. Note: I replaced stock valve covers with aftermarket DeTomaso script valve covers [PBN].
LOW [PBN].	[15,000 PBN]. [FTI = 12,000 or 12 months].	Clean PCV Hoses, Fittings, Tubes, and Associated Hardware [FTI page 21-01- 17]. Clean PCV (Positive Crankcase Ventilation System) System Hoses & Tubes (adjust, repair, or replace as required) [FTI page 52-00-02]. Clean Crankcase Ventilation System Connection(s) on Carburetor Spacer or Intake Manifold [FTI page 21-01-17].	See FTI page 21-01-17 "Positive Closed-Type Crankcase Ventilation System (Cleaning)" [FTI].	Cleaning PCV Hoses, Fittings, Tubes, and Associated Hardware: Low volatility, petroleum base solvent (dry with compressed air) [FTI page 21-01-17]. Cleaning Crankcase Ventilation System Connections: Flexible wire or bottle brush [FTI page 21-01-17].	ENGINE (CRANKCASE VENTILATION SYSTEM)	Note: I replaced intake manifold with an Edelbrock Performer 351-4V manifold [PBN].
LOW [PBN].	[15,000 PBN]. [FTI = 12,000 or 12 months (more often if operated in severe dust conditions)].	Clean Crankcase Breather Cap [FTI].			ENGINE (CRANKCASE VENTILATION SYSTEM)	Mechanic (Steve) didn't think this applies to Pantera – need to find out – if doesn't move to Never section.
LOW [PBN].	[15,000 PBN]. [FTI = 12,000 or 12 months].	Check EGR (Exhaust Gas Recirculation System) System. Adjust, repair, or replace as required. Clean exhaust passages in EGR valve, carburetor spacer, and intake manifold. [FTI].		EGR Valve to Carburetor Spacer Torque Limit 9Ft-Lb): 10-15 [FTI page 21-22-32].	ENGINE (EXHAUST EMISSIONS CONTROL SYSTEM) Related EGR item in DOT Annual Inspection Renewal in Yearly section [PBN].	Note: EGR System not part of carb, is add on [MECH]. Note: I replaced intake manifold with an Edelbrock Performer 351-4V manifold [PBN]. Note: Previous owner removed vacuum smog control stuff [PBN]. (does this apply to this entry?)
MEDIUM [MECH].	[15,000 PBN]. [FTI = 12,000 or 12 months].	Replace Spark, Choke, and EGR (Exhaust Gas Recirculation System) Delay Valve [FTI].			ENGINE (EXHAUST EMISSIONS CONTROL SYSTEM)? IGNITION SYSTEM (component)? FUEL SYSTEM (component)?	Note: Previous owner removed vacuum smog control stuff [PBN]. (does this apply to this entry?) Note: in above Check EGR System entry am also supposed to clean the EGR valve on same schedule – conflict (or is EGR valve and EGR delay valve 2 different valves)? Is Spark and Choke part of the "EGR Delay Valve"? Mechanic (Steve) not sure if 1 valve or 3 separate valves (thinks is one though)

LOW	[15,000 PBN].	Check Air Cleaner Temperature Control		FUEL SYSTEM (AIR	Note: Previous owner
[MECH].		[FTI].		CLEANER AND FILTER)	replaced the original air
	[FTI = 12,000 or 12				cleaner with one that would
	months].			Related Replace Carburetor	fit with the Edelbrock
				Air Cleaner in 10,000 Miles	Torker manifold when he
				section [PBN].	changed carburetor and
					intake manifold (I replaced
				Related Keep Carburetor in	that one with an
				Good Operating Condition	aftermarket Pantera script
				entry below [PBN].	air cleaner), therefore some
					of the references may not be
				Related Replace Crankcase	applicable [PBN].
				Emission Filter in Air	
				Cleaner entry in Never	
				section [PBN].	

 [P103] [P104] [P104]	over h1 this specific m, but other carburetor ated operations listed in I say for 12,000 miles erval [PBN]. Note: I replaced rburetor with a Holley 0, with manual choke erefore some of the 'erences may not be plicable to a Holley rb) [PBN]. *Note: Previous owner licated when the carb 's properly set up pecially the float levels it didn't run rich and use poor fuel "sumption, should check im periodically) it would t 17 mpg city and 21 mpg ghway (this was with the leibrock Torker intake unifold and Holley 650 uble-pumper carb – my rrent intake/carb setup ould get even better leage). HOWEVER, I'M VLY GETTING (3/2002) ROUT 14/16 MPG, SO 4Y NEED TO ADJUST IIS [PBN]. te: I have a Holley Carb unual Book [PBN]. te: Don't have to remove th for normal aintenance, only if olacing it etc, (therefore I in't ref the noval/installation structions of FTI page 24- -03 and 24-21-06 & 07& is actually overhaul and t routine maintenance? – b cleaning/inspection ated stuff I listed on this ecklist from FTI page 24- -03 and 24-21-06 & 07& is actually overhaul and t routine maintenance? – b cleaning is to the races too besides just this try) to be consistent with try to page 24-21-
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HIGH [MECH].	[15,000 PBN]. [OM = 8000 or 8 months]; [FTI = 12,000 or 12 months (check choke linkage)]. (OK to wait until 15,000 miles of should move this to 10,000 miles section (ask mechanic))?	Check Automatic* Choke Efficiency [OM]; Adjust Automatic* Choke Thermostatic Spring Housing Adjustment [FTI page 53-04-03]. Check Carburetor Choke Linkage (Adjust, repair, or replace as required) [FTI page 52-00-02]. Adjust Choke Plate Clearance (pulldown) [FTI page 24-21-06]. Check/Adjust Dechoke Clearance (clearance between the lower edge of the choke plate and the air horn wall) [FTI page 24-21-06]. (Should Thermo spring and Choke Plate/dechoke Clearances adjusts be moved to one of the other carb entries instead?).	See FTI pages 53-04-03 "Carburetor Adjustment (Automatic* Choke Thermostatic Spring Housing Adjustment)", 24-01-03 "Cleaning and Inspection (Carburetor)", 24-21-03 "Testing (Electric Choke Tests – Electrical Tests, Functional Test)", 24- 21-05 "Automatic Choke Thermostatic Spring Housing Adjustment", 24-21-06 "Choke Plate Pulldown", 24-21-06 "Dechoke Clearance", 24-41-01 "Removal and Installation (Air Cleaner and Filter Element)**" [FTI]. See Attachment 2 "Pantera Tune Up Ideas (Carburetor)" [WEB]. See Holley 600*** Carburetor Installation and Adjustment Instructions [PBN].		FUEL SYSTEM (CARBURETOR) Related Keep Carburetor in Good Operating Condition entry above [PBN]. Related Check/Adjust Idling Speed and Mixture entry below [PBN]. Related Check Carburetor Throttle Linkage, Air Valve, Throttle Solenoid and Dashpot entry below [PBN]. Related**** Thermostatic Air Control item in Annual Inspection Renewal entry in Yearly section [PBN].	*Note: Don't need to check automatic choke since mine currently is a manual choke, but still need to check manual choke's function periodically [MECH] (need to check any/all stuff listed by FTI for my carb? – ask mechanic (Steve)]. **Note: Per FTI page 53- 04-03, have to remove air cleaner to adjust automatic choke thermostatic spring housing [FTI]; Note: Previous owner replaced the original air cleaner with one that would fit with the Edelbrock Torker manifold when he changed carburetor and intake manifold (I replaced that one with an aftermarket Pantera script air cleaner) [PBN]. ***Note: I replaced carburetor with a Holley 600, with manual choke (therefore some of the references may not be applicable to a Holley Carb) [PBN]. ****Note: "Thermostatic Air Control" (in Annual Inspection Renewal entry in Yearly section) is same thing as "Thermostatic Spring Housing" [MECH]. Note: I have a Holley Carb Manual Book (PBN).
MEDIUM [MECH].	[15,000 PBN]. [FTI = 12,000 or 12 months]; [TSB = 4000** miles - Bulletin 5 Article #28].	Check Carburetor Throttle Linkage (Adjust, repair, or replace as required), Air Valve, Throttle Solenoid and Dashpot (adjust, repair, or replace as required) [FTI page 52-00-02]; Check full throttle opening [TSB Bulletin 5 Article #28].	See FTI page 24-01-03 "Cleaning and Inspection (Carburetor)" [FTI]. See Holley 600* Carburetor Installation and Adjustment Instructions [PBN].		FUEL SYSTEM (CARBURETOR) Related Check Holley Carburetor Diaphragm for Leaks entry in 5000 Miles section [PBN]. Related Keep Carburetor in Good Operating Condition entry above [PBN]. Related Check/Adjust Idling Speed and Mixture entry below [PBN]. Related Check Carburetor Choke entry above [PBN].	*Note: I replaced carburetor with a Holley 600, with manual choke (therefore some of the references may not be applicable to a Holley Carb) [PBN]. **Note: Assume was a one time thing at first 4000 miles of car [PBN]. Note: I have a Holley Carb Manual Book [PBN].

MEDIUM	[15 000 DDN]	Adding the East Mine way Fred T	C OM 50 %	Talla Guara d'Adiment (1	ELIEL OVOTEM	*NI-4 A
[MECH].	[15,000 1 BN].	Speed, Curb Idle Speed, Throttle	and Idle Speed Adjustment", 51 "Idle	Carburation Specifications:	(CARBURETOR)	time thing at first 4000
L - J.	[OM = 8000 or 8 months];	Solenoid "Off" Speed [FTI page 52-00-	Speed Adjustment" [OM].	See "Vehicle Emission Control	()	miles of car [PBN].
	[FTI = 12,000 or 12 months	02];		Information" label in engine	Related Check Holley	
	– page 52-00-02, check	Check, and if necessary, Adjust Idling	See FTI page 53-04-03 "Carburetor	compartment [OM page 50].	Carburetor Diaphragm for	**Note: I replaced
	carburetor fuel mixture and	Speed and Mixture*** [OM]; Cheelt/A divet Corburator Idle Speed and	Adjustment (Idle Speed and Fuel Minture***) ² 24 01 02 "Testing (Use		Leaks entry in 5000 Miles	<i>carburetor with a Holley</i>
	making ignition system	Fuel Mixture*** [FTI page 53-04-03]	of the Exhaust Gas Analyzer)"		section [1 BN].	(therefore some of the
	adjustments – page 23-01-	[i i puge 55 of 65].	"Removal and Installation of Idle		Related Keep Carburetor in	references may not be
	07].	Set idle speed [TSB Bulletin 5 Article	Limiter Caps", 24-01-03 "Adjustments		Good Operating Condition	applicable to a Holley
	1	#28].	(Supplemental Idle Speed and Fuel		entry above [PBN].	Carb) [PBN].
	[TSB = 4000* miles (idle)]		Mixture*** Procedures)", 24-21-04			
	speed) - Bulletin 5 Article		Mixture*** Normal Idle Fuel Settings		Chake antry above [PPN]	***Note: During tuning of
	#20].		Engine Off. Normal Idle Fuel Settings –		Choke entry above [FBN].	new ones. lean or rich
	(OK to wait until 15,000		Engine On, Fast Idle Adjustment)"		Related Check Carburetor	fuel/air mixtures can cause
	miles of should move this		[FTI].		Throttle Linkage, Air Valve,	hot spots around 1300
	to 10,000 miles section (ask				Throttle Solenoid and	degrees F, with potentially
	mechanic))?		See Attachment 2 "Pantera Tune Up		Dashpot entry above [PBN].	adverse effects to the
	1		Ideas (Carburetor)" [WEB].			header and possibly the
	1		See Holley 600** Carburetor			careful you will damage
	1		Installation and Adjustment Instructions			the Jet-Hot coating and
	1		[PBN].			possibly the engine. The
	1		1			coating will definitely turn
	1		1			dull and possibly flake off
	1		1			in excess of these
	1		1			neriod we strongly
	1		1			recommend using a large
	1					floor fan to cool the entire
	1		1			engine and headers (or if
	1					available, use an old set
	1					first for tuning). Failure to
	1					take these precautions
	1					damage to the Jet-Hot
	1					coating. Ignition timing is
	1		1			critical to exhaust
	1					temperatures which are not
	1					reflected by the water
	1					temperature gauge. It is not
	1					F on the water gauge when
	1		1			internal exhaust
	1		1			temperatures are exceeding
	1		1			1300 degrees F. [Jet-Hot
	1		1			Coating Installation and
	1		1			Maintenance Tips, and
	1		1			Caulion lugj.
	1		1			Note: I have a Holley Carb
	1		1			Manual Book [PBN].
	1		1			
	1		1			Note: Idle Fuel Mixture,
	1		1			Fast Idle Speed, Curb Idle
	1					Solenoid "Off" Speed are
	1		1			all Carburetor related
	1		1			[MFCH]

MEDIUM [PBN].	[15,000 PBN]. [FTI = 12,000 or 12 months]; [Holley 600* Carburetor Installation and Adjustment Instructions = inspect periodically – page 4].	Inspect (adjust, repair, or replace as required) Fuel Lines & Connection [FT1]; Make sure fuel lines are not clogged or damaged [FT1 page 24-30-01] (is this a troubleshooting, not maintenance step – therefore delete off list?); Fuel System Components including fuel lines should be inspected to assure no fuel leakage and the soundness of the hoses (Hoses which exhibit surface cracks when bent 180 degrees should be replaced; the presence of liquid fuel demands tightening of fittings, hose replacement, and retorquing of fuel system component flange nuts [Holley 600* Carburetor Installation and Adjustment Instructions page 4].	See Holley 600* Carburetor Installation and Adjustment Instructions page 4 "Maintenance" [Holley 600* Carburetor Installation and Adjustment Instructions].	Fuel Line: Stock fuel line is 5/16" ID [PBN – WEB].	FUEL SYSTEM (FUEL LINES) Related Clean/Degrease Engine and Transaxle entry in Yearly section [PBN]. Related Replace Fuel Filter entry in 10,000 Miles section [PBN]. Related Replace the Stock Sintered Bronze Fuel Filters in Holley Carburetors entry in Never section [PBN].	*Note: I replaced carburetor with a Holley 600 (does not contain in line morain fuel filters) [PBN – Holley 600 carburetor Installation and Adjustment Instructions].
MEDUIM [MECH].	[15,000 PBN]. [FTI = 12,000 or 12 months].	Inspect Fuel Vapor Emission Control System: Fuel Tank Filler Cap, Hoses and Vapor Lines (Adjust, repair, or replace as required) [FT1].			FUEL SYSTEM (GENERAL)	
MEDIUM [PBN].	[15,000 PBN]. [OM = 4000* (check) - page 45]. [OM = Occasionally (lubricate) - page 35].	Check Accelerator Linkage [OM page 45]. Lubricate Accelerator Linkage [OM page 35]; Clean and Lubricate Accelerator Linkage (check for/correct any binding condition that may hinder proper operation) [FTI].	See FTI page 53-01-02 "Accelerator Linkage" [FTI]. See PSH page 6 "Interior – Service Accessibility (Pedal Accessibility)" [PSH].	Accelerator Linkage Lubricant: SAE 10W Oil [FTI].	FUEL SYSTEM (THROTTLE LINKAGE)	*Note: Assume was a one time thing at first 4000 miles of car [PBN].

HIGH [MECH].	[15,000 PBN]. [FTI = 12,000 or 12 months - page 52-00-02; After any adjustment of ignition timing and distributor point dwell, check the distributor automatic advance for proper operation - page 23- 01-07].	Check Advance & Retard, Cut-in Speed (Adjust, repair, or replace as required) [FT] page 52-00-02]; Distributor Advance and Retard Check (Check the initial ignition timing*, centrifugal advance, vacuum advance, and vacuum retard) [FTI page 23-01- 06]. Check/Test E.P.V.S. Valve (check all connections for proper routing, electrical and vacuum) [TSB Bulletin 8 Article # 61].	See FTI pages 23-01-06 "Distributor Advance and Retard Check", "Distributor Dual Diaphragm Test", 23- 01-07 "Adjustments (General Procedures)", "Centrifugal Advance Adjustment", 23-01-08 "Vacuum Advance", 23-10-02 "Removal and Installation (Vacuum Advance Unit)", 23-10-03 "Removal and Installation (Distributor)", 23-15-01 "Electrical Distributor Vacuum Control Valve Test", "Removal and Installation (Vacuum Control Valve – EPVS Valve)" [FTI]. See TSB Bulletin 8 Article # 61 "Coolant System – Overheating Conditions (Electric Ported Vacuum Switch (P.V.S.) Valve – Testing) [TSB]. See PSH page 3 "Interior – Service Accessibility (Engine Accessibility)" [PSH]. (do I need to add this to all distributor entries, or can distributor stuff be done without removing firewall?) See Attachment 15 "The Firewall Cover" [WEB]. (do I need to add this to all distributor entries, or can distributor stuff be done without removing firewall?)	Distributor Vacuum Control Valve Torque Limit: 10-15 ft-lb [FTI page 21-22-32].	IGNITION SYSTEM (DISTRIBUTOR) Related Inspect/Check Spark Control System entry below [PBN]. Related Keep Distributor in Good Operating Condition and Adjusted to Specification entry in 30,000 Miles section [PBN]. Related Check Ignition Timing in Never section [PBN].	Note: This is done with Distributor on car (engine running), but may have to take off car to correct problems [MECH]. Note: Electric ported vacuum switch effective in production with MSN 04510 [PPQR Powertrain Item 1]. *Note: During tuning of certain engines, especially new ones, lean or rich fuel/air mixtures can cause hot spots around 1300 degrees F, with potentially adverse effects to the header and possibly the engine. If you are not very carefil, you will damage the Jet-Hot coating and possibly the engine. The coating will definitely turn dull and possibly flake off in excess of these temperatures. During this period we strongly recommend using a large floor fan to cool the entire engine and headers (or if available, use an old set first for tuning). Failure to take these precautions could result in permanent damage to the Jet-Hot coating. Ignition timing is critical to exhaust temperatures which are not reflected by the water temperatures agage. It is not unusual to see 190 degrees F on the water gauge when internal exhaust temperatures are exceeding 1300 degrees F. [Jet-Hot Coating Installation and Maintenance Tips, and Caution teal
MEDIUM [PBN].	[15,000 PBN]. [FTI = 12,000 or 12 months].	Keep Spark Control System in good operating condition and adjusted to specification [FTI page 23-01-02]; Inspect/Check Spark Control System (Inspect Vacuum Hoses, Inspect Electrical Leads, Check Thermal Switch (Adjust, repair, or replace as required)) IFTI			IGNITION SYSTEM (GENERAL) Related (to Spark Control System) Check Distributor Advance & Retard, Cut-In Speed entry above [PBN].	

LOW [MECH].	[15,000 PBN]. [FTI = 12,000 or 12 months (If Severe Service Operation* check spark plug wires resistance every 4 months or 4000 miles. Maintenance intervals given are based on the use of low-lead or unleaded gasoline. When using leaded gasoline or when operating for extended periods at low speeds, replace spark plugs at 8000 mile intervals.)].	Check Spark Plug Wires Resistance [FTI].	See FTI page 23-01-05 "Secondary (High Tension) Wires Resistance Test" [FTI].	Spark Plug Wires Resistance: Each wire should not exceed 1000 ohms per inch (do not puncture wires with a probe) [FTI page 23- 01-05]. Wiping Secondary Wiring: Use damp cloth [FTI page 23-01- 12].	IGNITION SYSTEM (SPARK PLUG WIRES) Related Keep Distributor in Good Operating Condition (secondary wires) and Adjusted to Specification entry in 30,000 Miles section [PBN].	*Note: Severe Service Operation is when operating your car under any of the following conditions: Extended periods of idling or low- speed operation, Outside temperature remains below + 10 degrees F for 60 days or more and most trips are less than 10 miles, In severe dust conditions [FTI].
MEDIUM [PBN].	[15,000 PBN]. [OM = 8000 or 8 months]; [FTI = 12,000 or 12 months for maximum efficiency (If Severe Service Operation* clean and regap spark plugs every 4 months or 4000 miles. Maintenance intervals given are based on the use of low-lead or unleaded gasoline. When using leaded gasoline or when operating for extended periods at low speeds, replace spark plugs at 8000 mile intervals.), or whenever plugs are removed].	Check (examine plug, check the gap, and ensure they are efficient), and if Necessary, Replace Spark Plugs [OM pages 44, 47]. Examine the firing ends of Spark Plugs, Examine (replace as required) plug carefully for cracked or broken insulators, badly pitted electrodes, and other signs of failure [FTI page 23-01- 11]. Service Spark Plugs (clean spark plug and insulation, adjust gap, performance test) [OM page 48]; Clean Spark Plugs and Set Gaps (check/clean the spark plug insulators and leads) [FTI page 53-04-02]. Inspect, Clean, and file the electrodes and gap the plugs [FTI page 23-01-05]; Clean area around each spark plug port, and dress the electrodes, and set the spark plug gap (All spark plugs, new or used, should have the gap checked and reset as required) [FTI page 23-01-10]. <i>Correct Spark Plug Gap and Heat Range is very important to optimum Holley 600 Carburetor efficiency and performance [Holley 600** Carburetor Installation and Adjustment Instructions page 4]. Replace Spark Plugs [FTI page 52-00- 02].</i>	See OM pages 47 "Spark Plug Check", 48 "Spark Plug Servicing" [OM]. See FTI pages 53-04-02 "Clean Spark Plugs and Set Gaps", 23-01-05 "Spark Plug Test", 23-01-10 "Removal and Installation (Spark Plug Wire, Spark Plugs)", 23-01-11 "Cleaning and Inspection (Spark Plugs)" [FTI]. See Attachment 2 "Pantera Tune Up Ideas (Changing The Plugs)" [WEB].	Cleaning Spark Plugs: Very fine wire brush and a compressed air line [OM page 48]; Sand Blast Cleaner (do not use the abrasive blast for a long time as it will erode insulator and electrodes) [FTI page 23-01-11]. Cleaning Spark Plug Port Area: Compressed air [FTI page 23-01- 10]. Dress Electrodes: Use small file [FTI page 23-01-10].	IGNITION SYSTEM (SPARK PLUGS)	*Note: Severe Service Operation is when operating your car under any of the following conditions: Extended periods of idling or low- speed operation, Outside temperature remains below + 10 degrees F for 60 days or more and most trips are less than 10 miles, In severe dust conditions [FTI]. Note: previous owner replaced the original dual point distributor with electronic ignition (Mobelec breakerless CD ignition system) [PBN]. Note: Spark plugs should last 20,000 miles since have Electronic Ignition instead of Points (better spark), and no longer use leaded gas [MECH]; Plug life is 3 times longer with the Mobelec breakerless CD ignition system [PBN – Previous Owner]. **Note: I replaced carburetor with a Holley 600 [PBN].
LOW [MECH].	[15,000 PBN]. [FTI = 12,000 or 12 months].	Lubricate Steering Arm Stops [FTI]. (My mechanic couldn't find steering arm "stops" – is this a valid maintenance item for a Pantera? Maybe was standard Ford Car item inadvertently included in Pantera FTI info)	See FTI page 13-01-01 "General Manual Steering Service (General Information)" [FTI].	Steering Gear Mounting Bolts Torque: 20 ft-lbs [PSH Specs Section]. Tie Rod Ends Torque: 43 ft-lbs [PSH Specs Section]. Pinion Bearing Preload: .002005 Crush [PSH Specs Section]. Rack Yoke Clearance: .002005 [PSH Specs Section]. (do these 4PSH Specs Section things directly above apply to this maint item, and if so are they maint info or repair info?)	STEERING (component?) Related Check Steering Boots entry in 10,000 Miles section [PBN]. Related Check/Lube Steering Linkage entry below [PBN].	Note: This is not the same thing as checking steering boots and check/lubing steering linkage [MECH].

MEDIUM [PBN]. (should be HIGH for safety?) (I 5,000/30,000* PBN]. [FTI = Poor ride and handling characteristics or abnormal tire wear – pg 52- 00-01; Check at 12,000 or 12 months, Lubricate at 36,000 or 36 months – pg 52-00- 03]. Stee Stee Wh stee Stee	heck/Lubricate* Steering Linkage [FTI g 52-00-01 & 03]; teering Linkage – Abnormal Looseness r Damaged Seals [FTI pg 52-00-03]; theck Steering Control (wheel return rom both directions, steering effort equired/inconsistent effort in different irections, harshness, noise, wander, or reeplay; if steering is exceptionally stiff heck steering effort) [FTI pg 53-02-01]; teering Gear Adjustmett (steering heel free play, lack of precision, teering wander) [PSH page 33]. teering Box Lube* ** ****Level [PITI iroup 52 Article 1]. teering Gear Tie rods should articulate reely in any direction without being so lack as to fall under their own weight sheek that the tie rod shank is not bent nd that the portion immediately behind he head is not bruised; check spherical eatings for signs of wear or fretting) (is <u>is maint or repair?</u>) [PSH page 34]; teering Gear Rack Support Yoke hould not bind in the housing, and no xcessive side clearance should be resent (is this maint or repair?) [PSH age 35]; xamine Steering Gear Pinion (wipe lean the pinion shaft to prevent damage o the seal) – examine pinion teeth for gins of wear and chipping and check arefully for signs of cracking towards he end of the teeth (pinion teeth may ave been cracked without actually hipping), check that the ball and the all cups are not worn or pitted (<u>is this paint or repair?</u>) [PSH page 35]; 'heck Steering Gear Rack bearing and upport for signs of scoring or excessive ever, check the flanks of the teeth for vear and also for bruising, check that he threaded ends of the rack are in good ondition and ensure that no burrs have een raised near the keyways (<u>is this paint or repair?</u>) [PSH page 35]; 'arefully examine the steering gear inion shaft seal lip for chipping or amage (<u>is this maint or repair?</u>) [PSH age 35]. 'meck the Coupling Bolt Connecting the teering Shaft to the Rack Pinion	See FTI pages 53-02-01 "Check Steering Control", 13-01-01 "General Manual Steering Service (General Information)" [FTI]. See PSH pages 33 "Symptoms of Need for Adjustment (of Steering Gear)", 34 "Checking for Wear and Damage and Dismantling (of Steering Gear)", 36 "Rebuilding and Adjustment (of Steering Gear)" [PSH]. See PITI Group 13 Article #1 "Rack & Pinion Maintenance" (way to top up oil level without taking the rack & pinion assembly out of the car, pages 7 & 8), Group 13 Article #3 "Steering Play" (way to fill rack without pulling it out of the car, page 4) [PITI]. See POCA NL Apr 2002 "The Five Most Neglected Maintenance Areas in your Pantera (When's the last time you checked the coupling bolt connecting the steering shaft to the rack pinion)" - Attachment 23 "POCANLapr2002etc" [POCA NL]. See Attachment 4 "Maintenance and Safety Inspections* (Steering Rack***)" [WEB]. (Some stuff in this row's entry is similar/duplicate of steering bods entry in 10.000 mile section – need to take duplicate stuff out of whichever entry if doesn't belong in. Which entry does it not belong in _i.e., 10,000 mile entry for boots/bellows stuff or this entry for rest of rack stuff?)	 Steering Gear Lubricant: SAE 90 E.P. Gear Oil [FTI]; SAE 90 oil (extreme pressure type), Grease must not be used as a lubricant [PSH page 37]; Extreme Pressure 90 wt gear oil [PITI Group 13 Article #3]. Steering Gear Oil Capacity: 1/3 pint + 10% (this amount should not be exceeded as overfilling may cause the bellows to burst or be forced off the main housing) [PSH page 37]; 1/3rd pint plus 10% [PITI Group 13 Article #3]. Steering Gear Adjustment: See specs etc in PSH page 36 "Rebuilding and Adjustment (of steering gear)" [PSH]. Effort Required to Rotate Steering Wheel (steering arms disconnected): 1-3/4 to 2 lbs [FTI page 53-02-01]. Steering Gear Mounting Bolts Torque: 20 ft-lbs [PSH Specs Section]. Tie Rod Ends Torque: 43 ft-lbs [PSH Specs Section]. Pinion Bearing Preload: .002005 Crush [PSH Specs Section]. Rack Yoke Clearance: .002005 [PSH Specs Section]. (do these 4PSH Specs Section]. (do these 4PSH Specs Section]. Smm Bolt Fastening Steering Shaft- To-Rack Coupling Torque: 24 inch-pounds***** (this would be an excellent place for a couple of drops of red Lock-Tite before tightening) [POCA NL Apr 2002 – Attachment 23 "POCANLapr2002etc"]. 		STEERING (STEERING GEAR) Related Road Test (e.g., driving/steering control check) entry in 10,000 Miles section [PBN]. Related Lubricate Steering Arm Stops entry above [PBN]. Related Steering Mechanism item in DOT Annual Inspection Renewal in Yearly section [PBN].	*Note: Check at 15,000 miles, Lubricate at 30,000 miles [PBN]. Note: Steering Gear and Steering Box lubing is same thing (this is the box on the steering rack – rarely (if ever) needs to be checked) [MECH]. **Note: Three-tenths of a pint of SAE 90 oil is put into the steering gear assembly during manufacture, and further lubrication is not normally required [FTI page 13-01- 01]. ***Note: I replaced the plastic steering rack bushing with a brass one from Hall Pantera [PBN]. ****Note: Most Pantera steering racks have no oil left in them due to defective boots and seepage [PITI Group 13 Article #3]. *****Note: Overtorquing the bolt will create exactly the scenario you are trying to avoid (bolt loosens or snaps, the shaft and steering wheel can become disconnected from the rack, leaving you with no steering at all) [POCA NL Apr 2002 – Attachment 23 "POCANLapr2002etc"].
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HIGH	[15,000/30,000* PBN].	Check/Clean-Repack* Front Wheel	See OM pages 56/57/58 "Changing a	Front Wheel Bearings Lubricant:	WHEELS AND TIRES	*Note: Check at 15,000
[MECH].		Bearings: Check, and if Necessary,	Wheel" [OM].	Lithium based grease Ford Part No.	(FRONT WHEEL	miles, Clean/Repack at
	[OM = check at 12,000 or	Adjust and Lubricate Front Wheel		C1AZ-19590-B [FTI page 11-10-	BEARING)	30,000 miles [PBN].
	12 months];	Bearings [OM pg 45 (Note: OM pg 35	See FTI pages 53-01-02 "Repack and	02];		
	[FTI = At regular	says to lube them on this frequency, not	Adjust Front Wheel Bearings", 11-02-02	Top Quality Wheel Bearing Grease	Related Check Rear Wheel	Note: Reason rear wheel
	inspection intervals (check	"if necessary")].	"Front Wheel Bearing", 11-10-01 "Front	[PITI Group 14 Article #1 page 2].	Bearings for Free Play entry	bearings not mentioned is
	the bearing adjustment) -		Wheel Bearing Adjustment", 11-02-02		below [PBN].	they're encased/sealed and
	page 11-02-02;	Check Front Wheel Bearings [TSB	"Removal and Installation (wheels and	Front Wheel Bearing Adjusting Nut		not serviceable (can only
	Adjust the front wheel	Bulletin 5 Article #28];	tires)", 11-10-02 "Front Wheel Grease	Torque:		replace them, not repack)
	bearings if the wheel is	Check** **** Front Wheel Bearing	Seal and Bearing Removal, Installation,	See FTI Part 11-10 Figure 1 "Front		[MECH].
	loose on the spindle or if	Adjustment Nuts to See if Locked in	and/or Repacking", 11-02-03 "Wheel	Wheel Bearing Adjustment" [FTI		
	the wheel does not rotate	Position Securely [PITI Group 14	Inspection (clean, inspect, and lubricate	page 11-10-01].		Note: "Repacking" is taking
	freely - page 11-10-01];	Article # 1].	front hubs and bearings)", 53-05-01			out old grease and putting
	[TSB = 4000*** miles		"Torque Wheel Nuts", 11-02-01	Wheel Installation:		in new grease [MECH].
	(check) - Bulletin 5 Article	Clean & Repack Front Wheel Bearings	"Hoisting" [FTI].	Apply light coating of protective		
	#28].	[FTI page 52-00-03];		grease between the hub and wheel		Note: Wheel hub is the part
		Repack and Adjust Front Wheel	See PITI Group 14 Article # 1 "Front	[FTI page 11-02-02];		(connected to spindle) the
	[FTI = Clean/Repack at	Bearings [FTI page 53-01-02].	Wheel Bearings", PITI Group 14 Article	Water resistant grease should be		wheel bolts onto via the lug
	24,000 or 24 months - page		#1 "Front Wheel Bearings" [PITI].	applied to the inside faces of the		nuts [MECH].
	52-00-03;	Clean, Inspect, and Lubricate Front		wheels and hubs, both front and		
	Whenever the hubs are	Hubs and Bearings [FTI page 11-02-03,	See TSB Bulletin 7 Article # 56 "Care of	rear, to facilitate their removal		Note: Hub nuts and axle
	removed or at the	11-10-02].	Magnesium Wheels" [TSB].	[TSB Bulletin 7 Article # 56].		nuts and bearing adjustment
	mileage/time periods					nuts are same thing (called
	indicated in the	Install new hub grease seals [FTI page	See PPQR Chassis Item 4 "Wheel	Wheel Nuts Torque (alternately and		different depending on
	maintenance schedule	11-02-03].	Bearings" [PPQR].	evenly): 43 to 58 ft-lb [FTI page		whether front or back), and
	(clean, inspect, and			53-05-01, PSH Specs Section].		are not the same thing as
	lubricate front hubs and	Wheel hub nuts**** should be inspected				the lug nuts[MECH].
	bearings) – page 11-02-03].	and tightened to specification, Keep the		See PSH Specs Section "Front		
		wheels and hubs clean, Check for		Suspension" [PSH] (do these specs		Note: Front wheel bearings
	[F I I = When the hub is	damage that would affect the runout of		apply to this item, and if they do are		don't need the special rear
	removed (install new hub	the wheels, Inspect the wheel rims for		they maint or repair related?).		axle nut socket wrench tool
	grease seals) – page 11-02-	chips that could let air leak from the tires				like rear wheel bearings do
	03].	[F11 page 11-02-03].		Front wheel Bearing Seals		[MECH].
				(size/dimension):		**\\
				44.4-05.0-7.9 (Coffeed AT CFW		** Note: Is problem on all
				is brond nome?)		cars but the fatest L
				<u>is brand name?)</u>		Article # 1]
						Article # 1].
						***Noto: A ssuma was a
						one time thing at first 4000
						miles of car [PBN]
						innes of car [i bit].
						****Note · Previous owner
						said need to "check the
						toraue of the front axle nuts
						regularly (even with the
						cotter pin they tend to get
						loose which can throw off
						the alignment and cause
						excessive tire wear) [PBN].

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VARIES [PBN].	[20,000 PBN (since car already has over 32,000 miles)]. [OM = 4000 and 16,000 and 32,000, or 4 and 16 and 32 months]; [TSB = 4000* miles - Bulletin 5 Article #28].	Tighten All Fasteners [OM, TSB Bulletin 5 Article #28].	See PSH page 3 "Interior – Service Accessibility (Engine Accessibility)" [PSH]. See Attachment 15 "The Firewall Cover" [WEB].		CAR <u>& BODY?</u>	Does something specify somewhere what "all fasteners" are (OM doesn't)? *Note: Assume was a one time thing at first 4000 miles of car [PBN].
LOW [PBN].	[20,000 PBN]. [OM = Occasionally]; [FTI = High effort required to swing doors or audible squeaks (Item should be checked periodically and service performed when required) – page 52-00-01; 8000 or 8 months – pg 52- 00-03]. [FTI = Upper Weatherstrips at every regular lubrication period – pg 44-01-01].	Lubricate Deck Lid and Door Hinges and Locks [OM]; Lubricate Door and Hood Hinges and Checks [FTI – pg 52-00-01]; Lubricate All Lock Cylinders, Deck Lid Hinges and Lock, Hood Hinges and Hood Latch [FTI – pg 52-00-03]. Lubricate Door Window Weatherstrips [FTI page 44-01-01].	See F11 page 53-01-01 "Hood Hinges", "Lubricate Lock Cylinders", "Lubricate Door Hinges", "Lubricate Rear Deck Lid Hinge Pivots", 44-01-01 "Doors, Hood, Luggage Compartment – General Service (General Information)" [FTI].	 Body Hinges, Hood, Latch, and Auxiliary Catch Lubricant: Ford Polyethylene Grease (Ford Part No. C4AZ-19584-B, Ford Specification ESB-M1C106-B) [FTI page 53-01-03]. Door Hinges Lubricant: Polyethylene Grease [FTI page 53- 01-01]; Polyethylene Grease (Ford Part No. C4AZ-195841-B) – even coat to the hinge pivot points [FTI page 44-01- 01]. Hood Hinges Lubricant: Polyethylene Grease [FTI page 53- 01-01]. Rear Deck Lid Hinge Pivots: Polyethylene lubricant [FTI page 53-01-01]. Rear Deck Lid Hinge Pivots: Polyethylene lubricant [FTI page 53-01-01]. Lock Cylinders Lubricant: Lock Lubricant (Ford Part No. B4A-19587-A) [FTI page 53-01-01, 44-01-01]; Ford Lock Lubricant (Ford Part No. B4A-19587-A, Ford Specification ESB-M2C20-A) [FTI page 53-01-03]. Door Window Weatherstrips Lubricant: Silicone Lubricant (Ford Part No. COAZ-19553-A (jelly) and COAZ- 19553-C (spray)) [FTI page 44-01- 01]. 	DOORS, HOOD, AND LUGGAGE COMPARTMENT (GENERAL) Related Doors/Decks etc Operation Check entry in 40,000 Miles section [PBN]. Related Lubricate the Window Glass Mechanism entry 40,000 Miles section [PBN].	Note: Assume "Auxiliary Catch" is same as "Checks" [PBN]. Note: I replaced my rear deck lid support struts with "extra husky" deck lid shocks from Pantera International [PBN].

			Is this a valid maintenance item? (need to incorporate other info from those referenced sections if this is a valid maintenance item)			frequency) Note: When engine rebuilt by Holman Moody at 80,000 miles they put in hydraulic (not solid) lifters [PBN]. Note: I replaced stock valve covers with aftermarket DeTomaso script valve covers [PBN]. **Note: Checking/adjusting valve clearance (can do by taking valve covers off) is only if have solid (not hydraulic) lifters – if have hydraulic) lifters – if have they stay OK [MECH - Steve and PPC (Nevada)]. Then why does FTI refet to checking/adjusting hydraulic lifters – maybe isn't a maintenance item in FTI but rather a repair type item?
HIGH* [PBN].	[20,000** PBN]. (see red text note in lube angle drive in 50,000 miles section)	Lube Speedometer Cable [FTI]; Check and Maintain the Lubrication* on the Speedo Cable [PITI Group 16 Article #11].		Speedometer Cable Lubricant: Ford Speedometer Cable Lube (Ford Part No. B5AZ-19581-A, Ford Specification ESF-M1C135- A) [FTI page 53-01-03].	INSTRUMENTS, CLUSTERS, AND CONTROLS (SPEEDOMETER); CLUTCH AND TRANSAXLE (TRANSAXLE) Related Lubricate the Transaxle to Speedo Cable Angle Drive entry in 50,000 Miles section [PBN].	*Note: Lubrication is necessary to prevent disastrous and catastrophic damage to the transaxle (high drag or seizure of the cable can cause the steel speedo driven gear to shear and fall into the bottom of the ZF, jamming in the gears and severely damaging the transaxle including breaking the main housing) [PITI Group 16 Article #11]. **Note: I replaced my speedometer cable at 85,000 miles [PBN].

LOW [PBN]. MEDIUM [PBN].	[30,000 PBN]. [FTI = 24,000 or 24 months] [30,000 PBN]. [WEB = Stock*** chains are considered worn with maybe 20,000 miles on them, only last about 30,000 miles (and at 30,000 miles they're toast) – Attachment 19a "Timing Chain"].	Torque Intake Manifold Bolts [FTI page 52-00-02]; Tighten Intake Manifold Bolts [FTI page 53-04-02]. Check Timing Chain Deflection (if deflection exceeds specifications, replace* ** the timing chain and sprockets) [FTI page 21-01-06]; Determine if your timing chain needs to be replaced* ** (measure the slack in the chain) (POCA NL Feb 1991 pages 6 & 7 (Attachment 19b)]. (Why isn't this listed as a routine maintenance thing in FTI/OM etc? – not a valid routine maintenance item? If is valid, should you inspect it on one frequency and replace it on another?)	See FTI page 53-04-02 "Tighten Intake Manifold Bolts" [FTI]. See FTI page 21-01-05 "Timing Chain Deflection" [FTI]. See POCA NL Feb 1991 pages 6 & 7 "Replacing the Pantera Timing Chain" (Attachment 19b) [POCA NL].	Intake Manifold Bolts Torque Limit (Ft-Lb): 21-25 (5/16 bolt), 27-33 (3/8 Bolt), 6-9 (1/4 Bolt) [FTI page 21-22-32]. Timing Chain Deflection (Maximum): 0.500 [FTI page 21-22-30]. Timing Chain Freeplay: A new chain and gear set will have no freeplay between the crank and the cam [POCA NL Feb 1991 pages 6 & 7 (Attachment 19b)]. Timing Chain***: Ford and the aftermarket both offer a double-roller timing chain that is stronger, much more durable and smoother running, but slightly noisier than the standard (stock) chain. A variant, the true-roller chain is built with an extra bearing- tube around each link-pin so the chain literally "rolls" into engagement on its sprocket teeth. Roller chain sprockets have multiple keyways so cam timing can be adjusted, too. [POCA NL Nov 2002 – Attachment 27 "POCAN In nov2002 etc"]	ENGINE (INTAKE MANIFOLD) ENGINE (TIMING CHAIN AND SPROCKETS) Related Check Coolant System Hoses** & Clamps entry in 15,000 Miles section [PBN]. Related Check All Drive Belts entry in 5000 Miles section [PBN]. Related Bakers Dozen Engine Upgrades (item 4, timing chain) entry in When Engine Removed section [PBN].	Note: I replaced intake manifold with an Edelbrock Performer 351-4V manifold [PBN]. *Note: Replacement** CAN be done without removing the engine or dropping the oil pan – See POCA NL Feb 1991 pages 6 & 7 (Attachment 19b) [POCA NL]. **Note: While the crank damper/pulley and water pump is out, it would be easier to check or change those hard-to-get-at water hoses [POCA NL Feb 1991 pages 6 & 7 (Attachment 19b)]. ***Note: The stock timing chain is known as a "silent chain", made up of hundreds of tiny pieces of steel pinned together. All these links wear pretty rapidly, as the 351-C has enormous valves that weigh
				rocandiov2002etc j.		a outch. The shell chains not dependable at continuos high rpms either. [POCA NL Nov 2002 – Attachment 27 "POCANLnov2002etc"].
LOW [PBN].	[30,000 PBN]. [OM = 4000*]; [TSB = 4000* miles - Bulletin 5 Article #28].	Tighten Exhaust Manifold Bolts Adjustment [OM]; Check Exhaust System (tightness of manifold-to-muffler inlet bolts) [FTI]; Tighten exhaust manifold bolts [TSB Bulletin 5 Article #28].	See FTI page 53-05-01 "Check Exhaust System" [FTI].	Exhaust Manifold Bolts Torque Limit (Ft-Lb): 12-22 [FTI page 21-22-32].	EXHAUST SYSTEM (EXHAUST MANIFOLD); ENGINE (EXHAUST MANIFOLD) Related Check Exhaust System Supports entry below [PBN]. Related General Exhaust System check below [PBN].	*Note: Assume was a one time thing at first 4000 miles of car [PBN]. Assume need to do this on very infrequent schedule – is 30,000 miles too often? Note: Previous owner replaced original exhaust system (headers, manifolds, tailpipes and mufflers) with "Mind-Train Enterprises "Big Throats" Exhaust System" [PBN].
LOW [PBN].	[30,000* PBN].	Check Exhaust System Supports (all supports, brackets, and flange joints for damage and/or leaks, replace any hangers that are damaged) [FTI].	See FT1 page 53-05-01 "Check Exhaust System Supports" [FT1]. See TSB Bulletin 14 Article #109 "New Muffler Support Strap" [TSB].	Muttler Support Strap: Ford Part No. D46Y-5260-A (new reinforced rubber) [TSB Bulletin 14 Article #109].	EXHAUST SYSTEM (GENERAL) Related Tighten Exhaust Manifold Bolts entry above [PBN]. Related Exhaust System Check (do they check this supports stuff in annual renewal? – if so add cross refs) in Annual DOT Inspection Renewal entry in Yearly section [PBN]. Related General Exhaust System Check below [PBN].	*Note: See related Tighten Exhaust Manifold bolts entry above, probably should do at same time, which is why I picked 30,000 miles [PBN]. Note: Previous owner replaced original exhaust system (headers, manifolds, tailpipes and mufflers) with "Mind-Train Enterprises "Big Throats" Exhaust System" [PBN].

LOW [PBN].	[30,000* PBN].	General Exhaust System Check: Check	See FTI page 26-01-01 "General			EXHAUST SYSTEM	*Note: See related Tighten
		to see that the Exhaust System is free of	Exhaust System Service (Description)"			(GENERAL)	Exhaust Manifold bolts
		leaks, binding, grounding, and excessive	[FTI].				entry above, probably
		vibrations (these conditions usually				Related Exhaust System item	should do at same time,
		caused by loose or broken insulators,				in Annual DOT Inspection	which is why I picked
		brackets, or pipes) - if any of these				Renewal entry in Yearly	30,000 miles [PBN].
		conditions exist, check exhaust system				section [PBN].	
		components and their alignment (align					Note: Previous owner
		or replace as necessary to maintain the				Related Tighten Exhaust	replaced original exhaust
		specified clearances) [FTI page 26-01-				Manifold Bolts entry above	system (headers, manifolds,
		01].				[PBN].	tailpipes and mufflers) with
		L					"Mind-Train Enterprises
		Inspect brackets and insulators for				Related Check Exhaust	"Big Throats" Exhaust
		cracks and stripped or badly corroded				System Supports entry above	System" [PBN].
		bolt threads (replace if damaged or badly				IPBNI.	, L ,
		corroded) [FTI page 26-01-01]. (does					Note: Previous owner
		this belong in exhaust supports entry				Related Underbody	removed vacuum smog
		above instead?)				Protection (rust and	control stuff [PBN].
						corrosion) Check in Yearly	551 1
		Inspect the inlet pipes outlet pipes and				section [PBN]	
		mufflers for cracked joints broken					
		welds and corrosion damage that would					
		result in a leaking exhaust system					
		(replace as needed) [FTI page 26-01-					
		01].					
LOW [PBN]	[30 000 PBN]	Inspect (adjust repair or replace as				FUEL SYSTEM (CARBON	*Note: "Catalytic
2011 [1211].	[50,0001211].	required) Evaporative Emission Canister				CANNISTER)	Converter" (in Annual
	$[FTI = 24\ 000\ or\ 24$	[FT]]					Inspection Renewal entry in
	months	[].				Related* Catalytic Converter	Yearly section) is not the
						Tampering Inspection item in	same thing as "Evaporative
						Annual DOT Inspection	Emission Canister" but is
						Renewal entry in Yearly	similar in that it is for
						section [PBN]	emissions control [MECH]
MEDIUM	[30 000 PBN]	Inspect (adjust repair or replace as	See FTI page 23-10-03 "Removal and	Cleaning Distributor Cap and		IGNITION SYSTEM	Note: I still have to do this
[MECH]	[50,0001211].	required) Distributor Cap & Rotor [FTI]	Installation (Distributor)" [FTI]	Rotor		(DISTRIBUTOR CAP	even though previous owner
[[FTI = 24,000 or 24]	required) Distributor cup to riotor [r rr];	inotanation (Diotrioator) [1 11],	Soft bristle brush and mild cleaning		DISTRIBUTOR ROTOR)	replaced the original dual
	months	Inspect Distributor Cap for cracks	See Attachment 2 "Pantera Tune Un	solvent or mineral spirits, dry cap			point distributor with
		burned contacts, broken carbon button	Ideas (Distributor Cap and Rotor)"	with compressed air [FT] page 23-		Related Lubricate Distributor	electronic ignition
		carbon tracks, or dirt or corrosion in the	[WEB].	01-12].		Bearing entry below [PBN]	(Mobelec breakerless CD
		sockets (replace the cap if damaged)	L., J.	·			ignition system) [MECH]
		[FTI page 23-01-12].				Related Keep Distributor in	.g
		r r.0				Good Operating Condition	
		Clean Distributor Can [FTI page 53-04-				and Adjusted to Specification	
		02].				entry below [PBN].	
		· 1.					
		Inspect Rotor for breaks, cracks, carbon				Related Check/Adjust	
		tracks, or burning (replace rotor if				Distributor Points/Gap in	
			1		1	mer	
		corroded or damaged) [FTI page 23-01-				Never section [PBN].	

MEDIUM [PBN]. [30,000* PBN]. Image: Constraint of the second secon	Keep Distributor in good operating condition*** and adjusted to specification [FTI page 23-01-02]; Inspect all distributor electrical wiring for fraying, breaks, etc. (replace any that is not in good condition) [FTI page 23- 01-12]; Check Distributor Secondary wiring for breaks and cracked insulation, inspect the terminals and boots for looseness or corrosion (replace any wires that are not in good condition) [FTI page 23-01-12]. Check the Distributor base for cracks or other damage [FTI page 23-01-12]. Check the distributor diaphragm housing, bracket, and rod for damage, test diaphragm for leakage (replace all defective parts) [FTI page 23-01-12]. Inspect the breaker plate assembly** for signs of distortion, wear, or damage (replace the breaker plate assembly if it is damaged) [FTI page 23-01-11].	See FTI pages 23-01-11 "Cleaning and Inspection (Distributor)", 23-01-12 "Secondary Wiring", 23-10-03 "Removal and Installation (Distributor)" [FTI].	Cleaning Distributor Assembly (except condenser, breaker point assembly, lubricating wick, vacuum diaphragm, distributor base oil seal, and electrical wiring): Mild cleaning solvent or mineral spirits (do not use a harsh cleaning solution; do not use a wire brush, file, or other abrasive object – use a soft bristle brush, dry with compressed air) [FTI page 23-01- 11]. Cleaning Distributor Assembly (parts that cannot be soaked in a solvent): Wipe with a clean dry cloth [FTI page 23-01-11]. Wiping Secondary Wiring: Use damp cloth [FTI page 23-01- 12].	IGNITION SYSTEM (DISTRIBUTOR) Related Inspect Distributor Cap & Rotor entry above [PBN]. Related Lubricate Distributor Bearing entry below [PBN]. Related Lube Distributor Cams entry in Never section [PBN]. Related Check/Adjust Ignition Timing entry in Never section [PBN]. Related Check/Adjust Distributor Points/Gap entry in Never section [PBN]. Related Distributor Condenser entry in Never section [PBN]. Related Distributor Condenser entry in Never section [PBN]. Related Check Advance & Retard, Cut-in Speed in 15,000 Miles section [PBN]. Related Spark Plug (Secondary Wiring) Wires Resistance entry in 15,000 Miles section [PBN]. Related Bakers Dozen Engine Upgrades (item 12, distributor roll pin) entry in When Engine Removed section [PBN].	*Note: Assume do this on same frequency as the other distributor maintenance operations (which are listed in this section) [PBN]. **Note: Even though I don't have distributor breaker points, I still have the breaker plate assembly [MECH]. ***Note: The drive gear on stock or aftermarket 351-C distributors is retained by a roll pin. Some 351-C distributors have a spiral pin instead of a roll pin – this type of pin is weaker than the thicker-wall roll pin in impact resistance. To upgrade this pin, inserting a smaller roll pin inside the stock one sufficiently strengthens the assembly such that no further pin breakage results, even under extreme conditions [POCA NL Nov 2002 – Attachment 27 "POCANL nov2002ete"]. Note: Don't have to remove distributor for normal maintenance, only if replacing it etc. [MECH] – therefore distributor related stuff Listed on this checklist from FTI page 23- 01-11 & 12 and 23-10-02 & 03 is actually overhaul and not routine maintenance? –ask mechanic and if so delete off this list (other places too besides just this entry) to be consistent with note 8 & 9. Note: Holman & Moody installed a Mallory Ignition unit (in my distributor) – need to note that in appropriate place on this	
					need to note that in appropriate place on this list – which entries does it affect (ignition timing, all distributor stuff2)2	
MEDIUM [MECH].	[30,000* PBN].	Lubricate Distributor Bearing [FTI].	See FTI page 53-01-02 "Lubricate Distributor Bearing", 23-10-03 "Removal and Installation (Distributor)" [FTI].	Breaker Point Arm Rubbing Blocks: High Temperature lubricant meeting Ford Specification ESF- M1C66-A [FTI]. Felt Wick: SAE 10W Engine Oil [FTI pages 53-01-02, 23-10-03].	IGNITION SYSTEM (DISTRIBUTOR) Related Inspect Distributor Cap & Rotor entry above [PBN]. Related Keep Distributor in Good Operating Condition and Adjusted to Specification entry above [PBN].	Note: I still have to do this even though previous owner replaced the original dual point distributor with electronic ignition (Mobelec breakerless CD ignition system) [MECH]. Note: Lubing Distributor Bearing and Lubing Distributor Cams are different things [MECH]. Note: Lubing Distributor Bearing and Inspecting Distributor Cap & Rotor are different maintenance operations [MECH]. *Note: Have to remove distributor cap & rotor to lube bearing (per FTI page 53-01-02), so convenient to do this when inspect distributor cap & rotor (see above entry) [PBN/MECH]. Note: The felt wick probably doesn't need to be lubed, lube at factory was probably sufficient (lubing wick and lubing bearing are different, but do at same time) IMECH].
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MEDIUM [PBN].	[30,000* PBN].	Clean Distributor Coil [FTI page 53-04- 02]. Check Distributor Coil for any cracks or other defects [FTI page 23-01-12].	See FTI pages 23-01-12 "Coil", 23-01- 05 "Secondary (High Tension) Wires Resistance Test" [FTI].	Conventional Ignition System – Coil Condenser and Primary Circuit Resistor Specifications: See FTI page 23-10-05 [FTI]. (list the individual specs here?) Ignition Coil Wire Resistance: Should not exceed 1000 ohms per inch (do not puncture the wire with a probe) [FTI page 23-01-05]. Wiping Coil: Use damp cloth [FTI page 23-01- 12]. Wiping Secondary Wiring: Use damp cloth [FTI page 23-01- 12].	IGNITION SYSTEM (IGNITION COIL) Related Check and Adjust Distributor Points entry in Never section [PBN].	*Note: No frequency given in references for this maintenance, assume do at same time as rest of ignition system maintenance [PBN]. Note: Ignition Coil and Distributor Coil are same thing (coil is not part of the distributor, just connected to it by a wire) [MECH].
	Every 40,000 Miles					
LOW [PBN].	[40,000 PBN]. [OM = 4000*]; [TSB = 4000* miles - Bulletin 5 Article #28].	Check Doors and Decks Lock Adjustment [OM, TSB Bulletin 5 Article #28]. Check Door Operation (alignment, fit, and closing effort, striker adjustment) [FTI].	See FTI page 53-03-01 "Check Door Operation" [FTI].		DOORS, HOOD, AND LUGGAGE COMPARTMENT (GENERAL) Related Lube Doors etc entry in 20,000 Miles section [PBN]	*Note: Assume was a one time thing at first 4000 miles of car [PBN].

HIGH [MECH].	[40,000 PBN]. [FTI = 36,000 or 36 months]; [PITI = periodically, probably at the same intervals as repacking the front wheel bearings (re- grease the A frame bushings) – Group 14 Article #9]. [MECH = periodically (must lubricant poly*** bushings)].	Chassis Lube [PITI Group 52 Article 1]. Lubricate Front Suspension, Ball Joints [FTI]. Lubricate Ball Joints (front/rear, upper/lower) [PITI Group 53 Article 1]. Disassemble* *** both A frame units and re-grease them (the bushings) [PITI Group 14 Article #9]; Lubricate* ** Lower Rear Pivot Shafts (A-Arm Pivot Points) in the Rear Suspension, and the Brass Carrier Bushings [POCA NL Apr 2002 – Attachment 23 "POCANLapr2002etc"]. Lube Poly*** **** Suspension Bushings [MECH].	See PITI Group 53 Article #1 "Lubrication Tips" [PITI]. See POCA NL Apr 2002 "The Five Most Neglected Maintenance Areas in your Pantera (Lubrication of the lower rear pivot shafts in the rear suspension)*****" - Attachment 23 "POCANLapr2002etc" [POCA NL].	Ball Joints with grease fittings: Hand grease gun with good quality lithium base grease (add grease until rubber seal starts to get "fat", then stop) [PITI Group 53 Article l]. Ball joints without grease fittings: Use a hypodermic syringe (the type lubricant varies with application depending on viscosity you want, e.g. high pressure moly/graphite based types) [PITI Group 53 Article l]. See PSH Specs Section "Front Suspension", "Rear Suspension" [PSH] (do these specs apply to this item, and if they do are they maint or repair related?). Rear Suspension Lubricant: Moly Lube [PITI Group 14 Article 3]. Poly*** Suspension Bushings Lube: Regular Chasis lube? ARP Moly Paste? Special Pantera East lube? Anti-Crush Sleeve inside the Carrier: Copious amounts of grease POCA NL Apr 2002 – Attachment 23 "POCANLapr2002ete"].	SUSPENSION (GENERAL, BUSHINGS) Related Check Front/Rear Suspension for A Arm/Shaft Support Assembly Problems in Yearly section [PBN]. ****** Addition (There wasn't room for this in Notes column -PBN): ******Note: There is an anti- crush sleeve inside the cast iron carrier that is made of hardened steel. This type of steel rusts very easily, and without copious amounts of grease, soon corrosion-welds itself to the pivot shaft. When this happens, the assembly cannot be pressed apart but must be cut into pieces to disassemble [POCA NL Apr 2002 – Attachment 23 "POCANLapr2002etc"].	Note: "chassis" refers to all of the suspension (both front and back) [MECH]. *Note: The A frame bushing/shaft/sleeve***** system assembly was originally greased at the factory, and there is no provision for further lubrication short of complete disassembly (unless you added aftermarket zerk fitting kit) [PITI Group 14 Article #9]; There is no external way to lube the a-arm pivot points nor the brass carrier bushings (there are kits that substitute a gun-drilled pivot shaft with a grease fitting on one end, and some owners have added external grease fittings to the carrier) [POCA NL Apr 2002 – Attachment 23 "POCANLapr2002etc"]. ** Note: Previous owner installed set of Hall Pantera extended rear upper "A" arms, and engine compartment spreader bar was replaced with a Hall Pantera adjustable cross brace (camber bar) by previous owner [PBN]. ****Note: Previous Owner replaced original (rubber) suspension bushings (except ones on rear sway bar) with poly (neophrene) bushings from Hall Pantera) [PBN]. ****NOTE: CAR SQUEAKS WHEN STRESSED DURING DRIVING (is due to poly suspension bushings the previous owner added, according to previous owner) – MAY NEED TO USE BETTER LUBE ON
						according to previous owner) – MAY NEED TO USE BETTER LUBE ON THESE? (or replace them with rubber or other poly ones that don't squeak) [PBN – TEMP].
						See ******Addition
LOW [PBN].	[40,000 PBN]. [FTI = Whenever the Window glass channel or window regulator is removed, or it becomes necessary to operate the window manually - page 43-01-011	Lubricate the Window Glass Mechanism [FTI page 43-01-01].	See FTI page 43-01-01 "Door, Windshield, and Rear Window Glass (General Information - Window Mechanism Lubrication)" [FTI]. See PSH page 3 "Interior – Service Accessibility (Door Glass Drop Motor and Gear Mechanism Accessibility)" [PSH].	Window Mechanism Lubricant: Even coating of polyethylene grease (Ford Part No. C4AZ-19584- A) [FTI page 43-01-01].	WINDOW GLASS (WINDOW REGULATOR) Related Lubricate Window Weatherstrips entry in 20,000 Miles section [PBN].	Note: Previous owner replaced original nylon window regulator gears with bronze gears from Hall Pantera [PBN].

	Every 50,000 Miles					
LOW [PBN]. (should this be low – i.e., will brake pedal continue to work similar to way clutch pedal will continue to work?)	[50,000 PBN].	Coat the large shaft the brake pedal return spring goes on with anti-seize, and put some anti-seize around and under the spring to prolong its life [WEB - Attachment 26 "Pedal Return Springs"].		Anti-Seize Type: Silver [WEB - Attachment 26 "Pedal Return Springs"]. Anti-Seize Applicator: Swab [WEB - Attachment 26 "Pedal Return Springs"].	BRAKES (GENERAL) Related Coat the Clutch Pedal Return Spring with Anti-Seize entry below [PBN]. Related Brake Operations Check entry in Yearly section [PBN].	
MEDIUM [PBN].	[50,000 PBN]. [POCA NL Apr 2002 = a pump of grease (via zerk*** fittings) once in a while would surely not be bad]. [MECH (Jenkins & Jenkins) = Lube (via zerk fittings) once every 5 years].	Re-Grease* **** the Twin Needle Bearings** on the Ends of the Clutch Bellcrank Shaft in your Engine's Bellhousing [POCA NL Apr 2002 – Attachment 23 "POCANLapr2002etc"]. (related to/same as "Lube Clutch Withdrawal Shaft" entry in 10,000 Miles section?)	See POCA NL Apr 2002 "The Five Most Neglected Maintenance Areas in your Pantera (The twin needle bearings on the ends of the clutch bellcrank shaft in your engine's bellhousing)" including Attachment 23 "POCANLapr2002etc" [POCA NL].	Needle Bearing Lubricant: Grease [POCA NL Apr 2002 – Attachment 23 "POCANLapr2002etc"].	CLUTCH AND TRANSAXLE (CLUTCH) Related Lube Clutch Withdrawal Shaft entry in 10,000 Miles section [PBN]. Related Check, Clean, and Re-Grease the Twin Needle Bearings entry in When Transaxle Removed section [PBN]. Related Change the Pilot Bushing in the Rear of the Crankshaft entry in When Transaxle Removed section [PBN].	*Note: Re-grease*** at 50,000 miles and whenever transmission pulled, Check/Clean and Re- Grease whenever transmission pulled (see separate entries) [PBN]. **Note: These small bearings are well sealed and were lubed at the factory, but it's been 30 plus years since that was done. They were not designed to be serviced, because to re- grease them one needs to pull the transaxle (or at least slide it back far enough to allow access to the inside of the bellhousing). A dedicated owner could add zerk** fittings to the bellhousing above these little bearings [POCA NL Apr 2002 – Attachment 23 "POCANLapr2002ete"]. ****Note: I had zerk fittings added (when had ZF safety- wired) to my bellhousing to enable these to be easily greased**** – therefore probably only need to "clean and check" the needle bearings whenever have to pull transaxle for some reason [PBN]. ****Note: Use just a squirt of grease - don't try to fill with grease until it comes out the zerk fitting feeds into large area back into housing) [MECH – Jenkins & Jenkins].

TH OTH	550 000 PP3 II					4.3.7
HIGH* [PBN].	[50,000 PBN]. [POCA NL Apr 2002 = decade]. (move this to a longer interval (10 years or 100,000 miles) if create one in future since should last a "decade")	Lubricate/Repair the Effort Reduction Linkage** under the Dash [POCA NL Apr 2002 – Attachment 23 "POCANLapr2002etc"].	See POCA NL Apr 2002 "The Five Most Neglected Maintenance Areas in your Pantera (The effort reduction linkage under the dash)***" - Attachment 23 "POCANLapr2002etc" [POCA NL].	Effort Reduction Linkage Lubricant: Grease [POCA NL Apr 2002 – Attachment 23 "POCANLapr2002etc"].	CLUTCH AND TRANSAXLE (CLUTCH) Related Check Clutch Pedal Free Play entry in 10,000 Miles section [PBN]. Related Lubricate Clutch Linkage (under dashboard) entry in 15,000 Miles section [PBN]. Related Coat the Clutch Pedal Return Spring with Anti-Seize entry below [PBN].	*Note: Worn and loose or frozen solid effort reduction linkage parts contribute to reducing the release distance your clutch linkage can produce, thus causing more wear on your ZF's very expensive gear synchronizers [POCA NL Apr 2002 – Attachment 23 "POCANLapr2002etc"]; Assume this can cause same problems as related check clutch pedal free play entry in 10,000 Miles section [PBN]. **Note: Only L model Panteras have this [POCA NL Apr 2002 – Attachment 23 "POCANLapr2002etc"]; A redesigned clutch pedal linkage was introduced in production 9/1/1972 [PPQR Powertrain item 12]. ***Note: Due to the way the effort reduction linkage mechanism is designed, one almost needs to remove the dashboard in order to remove and repair any worn links [POCA NL Apr 2002 – Attachment 23 "POCANLapr2002etc"]. Note: Assume this is different from the Lubricate Clutch linkage entry in 15,000 Miles section since that applies to all Panteras and the Effort Reduction Linkage IBN].
LOW* [PBN].	[50,000 PBN].	Coat the large shaft the clutch pedal return spring goes on with anti-seize, and put some anti-seize around and under the spring to prolong its life [WEB - Attachment 26 "Pedal Return Springs"]. (is this part of, and thus should be combined with, lubing clutch linkage entry in 15,000 miles section?)		Anti-Seize Type: Silver [WEB - Attachment 26 "Pedal Return Springs"]. Anti-Seize Applicator: Swab [WEB - Attachment 26 "Pedal Return Springs"].	CLUTCH AND TRANSAXLE (CLUTCH) Related Coat the Brake Pedal Return Spring with Anti- Seize entry above [PBN]. Related Lubricate/Repair the Effort Reduction Linkage entry above [PBN]. Related Check Clutch Pedal Free Play entry in 10,000 Miles section [PBN]. Related Lubricate Clutch Linkage (under dashboard) entry in 15,000 Miles section [PBN].	*Note: If spring breaks the clutch will continue to work as the pressure plate springs push the clutch arm back which in turn pushes the slave cylinder back, which in turn pushes your pedal back (but you should replace it if breaks) [WEB - Attachment 26 "Pedal Return Springs"]. Note: Assume this is not part of the effort reduction linkage (entry above) since non-L model Panteras have this spring too [PBN].

LOW	[50,000* PBN].	Lubricate the Transaxle to Speedo Cable	See Attachments 25a, c, d "Transaxle	Angle Drive Greasing Tools:	INSTRUMENTS,	*Note: The angle drive is or
[PBN].		Angle Drive [WEB – Attachments 25a,	Angle Drive** Special Tool" [WEB].	Use a hand powered grease gun and	CLUSTERS, AND	was a sealed non-
	(need to change frequency	b, c, d "Transaxle Angle Drive Special		the Special Tool**** greasing	CONTROLS	serviceable unit (the adapter
(should this	of this or the 20,000 mile	Tool"].		adapter* [WEB – Attachments 25a,	(SPEEDOMETER);	allows you to grease your
be high for	speedo cable lube so they			b, c, d "Transaxle Angle Drive	CLUTCH AND	angle drive worm gears
same reason	are at the same time since			Special Tool"].	TRANSAXLE	which are undoubtedly dry
lube speedo	similar things, or at least do				(TRANSAXLE)	from centrifugal force and
cable at	the angle drive lube at some			Angle Drive Lubricant:		age) [WEB – Attachments
20,000 miles	multiple of the speedo cable			Pump grease until resistance is feit,	Related Lube Speedometer	25a, b, c, d Transaxie
<u>is, or can this</u>	lube so can be done			then pump SLOWLY one pump	Cable entry in 20,000 Miles	Angle Drive Special
angle unve	luba naadad2)			vormulittle groope is needed) [WED	section [PBN].	1001 J.
not cause	<u>Iube fielded / j</u>			Attachments 25a h a d		**Note: Do NOT romovo
failure?)				- Attachments 25a, 0, c, d "Transayle Angle Drive Special		the angle drive. The
<u>ianuic: j</u>				Tool"]		angle_drive shaft & bushing
				1001].		are held by a 10mm bolt
				Angle Drive Greasing		just below the big nut
				It is best to regrease the adapter		that retains the angle drive
				after the car has been run and the		Unscrewing the big nut is
				adapater is warm. It is not advisable		fine but if you try
				to force grease into something that		to simplify this by
				is dead cold [WEB - Attachment		removing the small bolt, the
				25a "Transaxle Angle Drive Special		angle drive shaft will drop
				Tool"].		into the gearbox. This
						requires disassembly of the
						ZF to get it back.) [WEB -
						Attachment 25a "Transaxle
						Angle Drive Special
						Tool"].
						***Note: A grease gun has
						the power to blow the
						staked end caps off the
						angle drive [WEB –
						Attachment 25a Transaxie
						Tool"
						1001].
						****Note: I have the
						transaxle angle drive
						special tool [PBN].
MEDIUM	[50,000 PBN].	Stress Relieve Campy (Magnesium)	See Attachment 14 "Stress Relieving		WHEELS AND TIRES	Note: Magnesium will
[PBN].	-	Wheels [WEB - Attachment 14 "Stress	Campy's" [WEB].		(WHEELS)	ignite, must be careful
-	[WEB = Maybe once every	Relieving Campys"].				[WEB – Attachment 14
	50,000 miles of highway		See instructions and warnings for taking		Related Inspect Wheels and	"Stress Relieving
	driving, or 500 racetrack		off wheels and tires in Inspect Wheels		Tires entry in 5000 Miles	Campys"].
	driving miles - Attachment		and Tires entry in 5000 Miles section		section [PBN].	
	14 "Stress Relieving		[PBN]. (should just copy them here			
	Campys"].		rather than referencing them?)			
	Special					
	When Engine Removed					

MEDUM* [PBN].	[Whenever engine is removed** PBN].	Replace 351C Engine's Factory Freeze Plugs [POCA NL Apr 2002 – Attachment 23 "POCANLapr2002etc"], [POCA NL Nov 2002 – Attachment 27 "POCANLnov2002etc"].	See POCA NL Apr 2002 "The Five Most Neglected Maintenance Areas in your Pantera (Has your Pantera's 351C ever had its factory freeze plugs replaced)" - Attachment 23 "POCANLapr2002etc" [POCA NL].	Replacement Plugs: Should be brass (there are low and high side types) [POCA NL Apr 2002 – Attachment 23 "POCANLapr2002etc"]; Brass** [POCA NL Nov 2002 – Attachment 27 "POCANLnov2002etc"]. Sealant: No sealant is normally needed (but coating the edges with RTV or permatex can be done after installaton if the block is scarred from removal of the old plugs) [POCA NL Apr 2002 – Attachment 23 "POCANLapr2002etc"].	ENGINE (GENERAL) Related Bakers Dozen Engine Upgrades (item 11, freeze plugs) entry below [PBN]. (is this same thing as "core plugs"? – if so FTI has info on this need to ref, and change the component from "general" to "Core Plug" or other thing plug called in FTI engine section #2) (should I add cross ref"s to/from replacing coolant?)	*Note: Factory freeze plugs are mild steel, and unless all owners of the engine were as diligent as you(?) about changing antifreeze yearly, they are all badly corroded and probably on the verge of failure. [POCA NL Apr 2002 – Attachment 23 "POCANLapr2002etc"]; All the stock freeze plugs in your engine are seriously- rusted mild steel unless you have religiously kept fresh rust-inhibiting anti-freeze in the engine. If one rusts through while you're driving, all the engine coolant will be lost. [POCA NL Nov 2002 – Attachment 27 "POCANLnov2002etc"]. **Note: Only one of the six freeze plugs can be practically accessed with the engine installed, just in case you figure it can be done anytime (two are under the motor mounts) [POCA NL Apr 2002 – Attachment 23 "POCANLapr2002etc"]; By replacing the stock steel plugs with brass ones while the block is accessible, no further problems of this sort will occur in your lifetime [POCA NL Nov 2002 – Attachment 27
MEDUM [PBN].	[Whenever engine is removed PBN].	Do the "Baker's Dozen* Vital Upgrades for any Street Performance 351-C Engine" [POCA NL Nov 2002 – Attachment 27 "POCANLnov2002etc"].	See POCA NL Nov 2002 "A Baker's Dozen Vital Upgrades for any Street Performance 351-C Engine" – Attachment 27 "POCANLnov2002etc" [POCA NL].		ENGINE (GENERAL) Related Replace Freeze Plugs entry above [PBN]. Related Check Timing Chain Deflection entry in 30,000 Miles section [PBN]. Related Keep Distributor in Good Operating Condition and Adjusted to Specification entry in 30,000 Miles section [PBN]. (need to add cross ref's to/from maintenance operations related to other parts of engine this says to	*Note: Upgrades numbers 4 & 11 & 12 already incorporated into this checklist elsewhere too (in timing chain and freeze plug and distributor maintenance items sections) [PBN]. Note: If do these need to incorporate onto this checklist where/as appropriate (like did for items 4 & 11 & 12 above), and incorporate onto modifications list too [PBN].

VARIES [PBN].	[Whenever engine is removed PBN].	 MISCELLANEOUS STUFF TO DO WHEN ENGINE IS REMOVED [PBN]: 1) Do any modifications*/repairs that were awaiting/needing engine removal (see my separate repairs/enhancements lists) [PBN]. 2) Check (repair/replace** if needed) stuff normally don't have easy access to (such as engine rubber hoses, inspect for rusting components/areas, check the pressure and overflow coolant tanks for internal rust, inspect gas tank, etc) [PBN]. 3) Be sure reinstall aftermarket DeTomaso script valve covers and aftermarket Pantera script air cleaner (with "T" logo knob), rather than replacing them with stock parts [PBN]. 	(add reference to engine removal section of FTI & PSH etc?)		MISCELLANEOUS See related Miscellaneous Stuff to do When Transaxle/Clutch is Removed entry in When Transaxle Removed section [PBN]. Related Underbody Protection (rust and corrosion) Check in Yearly section [PBN]. Related Clean/Degrease Engine and Transaxle entry in Yearly section [PBN]. Related Have Mechanic Do General All Over Inspection of Car entry in Yearly section [PBN].	Note: If find official maintenance documentation of an item 1 listed in this "miscellaneous" entry delete it off this entry and create its own separate entry on checklist (and change any affected cross references to this listing), but be sure any useful info/references is also on this checklist elsewhere before delete it off this entry [PBN]. <i>Note: Engine was rebuilt at 80,000 miles [PBN].</i> Note: When remove engine be sure to remove the distributor cap before lifting as the cap will crack/break the rear window [PBN – WEB]. Note: When put engine back be sure long motor mount bolts put back on right side up (i.e., bolt head on top) – must be done BEFORE replacing the powertrain [PBN – WEB]. Note: If take off rear deck lid struts when removing engine, be sure put them back on with cylinder up (top 1/2) with shaft on bottom (keeps dirt out and has "stop" mechanism in that orientation) [PBN – WEB]. *Modification Examples: <i>Different canshaft for better gas mileage</i> [PBN – TEMP].
	Storage					TEMP].
VARIES [PBN].	[[PITI Group 52 Article 2 = To Store Vehicle for 30 Days or Longer]; [Jet-Hot Coating Installation and Maintenance Tips = Before storing for winter].	Check/do stuff listed in PITI Group 52 Article 2 page 1 "To Store for up to 30 Days", or "To Store for Long Periods of Time" [PITI]; Wipe* and dry off your Jet-Hot coated headers. Then park the car over plastic or a large tarp (this will protect your car against moisture seeping up through the floor and causing surface rust) [Jet-Hot Coating Installation and Maintenance Tips].	See PITI Group 52 Article #2 "Vehicle Storage (To Store for Up to 30 Days, & To Store for Long Periods of Time sections)".		CAR Related Bring Vehicle out of storage entry below [PBN].	*Jet-Hot Black should never be polished or rubbed [Jet-Hot Coating Installation and Maintenance Tips].

VARIES [PBN].	[[PITI Group 52 Article 2 = Bring Vehicle out of 30 Days or Longer Storage]; [WEB = Panteras not run for years].	Check/do stuff listed in PITI Group 52 Article 2 page 2 "Bring Your Vehicle Back to Life", and in Group 27 Article #6 [PITI]; Check/do stuff listed in Attachment 20 "Resurrecting Panteras Not Run for Years [WEB].	See PITI Group 52 Article #2 "Vehicle Storage (Bring Your Vehicle Back to Life)", Group 27 Article #6 "Radiator Thermostat Replacement" [PITI]. See Attachment 20 "Resurrecting Panteras Not Run for Years [WEB].		CAR Related Put Vehicle into Storage entry above [PBN].	Note: May have corrosion damage in the engine and ZF transaxle and fuel tank and other containers from moisture condensation if not stored (for years) in a bone-dry atmosphere [POCA NL Aug 2002 page 20].
	When Transaxle Removed					
MEDUIM [PBN].	[Whenever transmission and clutch are removed* PBN].	Change the Pilot Bushing** in the Rear of the Crankshaft [POCA NL Apr 2002 – Attachment 23 "POCANLapr2002etc"].	See POCA NL Apr 2002 "The Five Most Neglected Maintenance Areas in your Pantera (The pilot bushing in the rear of the crankshaft)" - Attachment 23 "POCANLapr2002etc" [POCA NL].	Stock** Bushing Removal: 3/4-thread tap. Defective Needle Bearing (non- stock**) Removal: Dedicated bearing puller, or a small grinder, a hammer and chisel, and proper sized socket [POCA NL Apr 2002 – Attachment 23 "POCANLapr2002etc"].	CLUTCH AND TRANSAXLE (what component?) Related Re-Grease the Twin Needle Bearings entry in 50,000 Miles section [PBN]. Related Check, Clean, and Re-Grease the Twin Needle Bearings on the Ends of the Clutch Bellcrank Shaft entry below[PBN]. <u>Is this related to lubing the clutch withdrawal shaft in 10,000 miles section?</u>	 *Note: To service this area requires the transmission and clutch to be removed, so it usually only is accessible during engine or clutch rebuilds. This bushing wears out rather regularly [POCA NL Apr 2002 – Attachment 23 "POCANLapr2002etc"]. **Note: There are 3 types of pilot bushings in common use: the stock one is sintered bronze, the second is sintered bronze adulterated with iron filings to make it cheaper, and the third is a small needle bearing (the iron/bronze bushing and the needle bearing have both been known to wear the nose of the transmission when their supply of lube dries up) [POCA NL Apr 2002 – Attachment 23 "POCANLapr2002etc"].

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[PBN].	removed** PBN].	the Twin Needel Bearings** on the Ends of the Clutch Bellcrank Shaft in your Engine's Bellhousing [POCA NL Apr 2002 – Attachment 23 "POCANLapr2002etc"]. (same as "Lube Clutch Withdrawal Shaft" entry in 10,000 Miles section?)	Most Neglected Maintenance Areas in your Pantera (The twin needle bearings on the ends of the clutch bellcrank shaft in your engine's bellhousing)" including Attachment 23 "POCANLapr2002etc" [POCA NL].	Grease [POCA NL Apr 2002 – Attachment 23 "POCANLapr2002etc"].	TRANSAXLE (CLUTCH) Related Lube Clutch Withdrawal Shaft entry in 10,000 Miles section [PBN]. Related Re-Grease the Twin Needle Bearings entry in 50,000 Miles section [PBN]. Related Change the Pilot Bushing in the Rear of the Crankshaft entry above [PBN].	50,000 miles and whenever transmission pulled, Check/Clean and Re- Grease whenever transmission pulled (see separate entries) [PBN]. **Note: These small bearings are well sealed and were lubed at the factory, but it's been 30 plus years since that was done. They were not designed to be serviced, because to re- grease them one needs to pull the transaxle (or at least slide it back far enough to allow access to the inside of the bellhousing). A dedicated owner could add zerk*** fittings to the bellhousing above these little bearings [POCA NL Apr 2002 – Attachment 23 "POCANL apr 2002 etc"]. ***Note: I had zerk fittings added (when had ZF safety- wired) to my bellhousing to enable these to be easily greased**** – therefore probably only need to "clean and check" the needle bearings whenever have to pull transaxle for some reason [PBN]. ****Note: Use just a squirt of grease - don't try to fill with grease until it comes out the zerk fitting like normally do with zerk fittings (zerk fitting feeds into large area back into housing) [MECH – Jenkins
VARIES [PBN].	[Whenever transmission/clutch is removed PBN].	MISCELLANEOUS STUFF TO DO WHEN TRANSMISSION/CLUTCH IS REMOVED [PBN]: 1) Do any modifications/repairs that were awaiting/needing transaxle/clutch removal (see my separate repairs/enhancements lists) [PBN]. 2) Check (repair/replace if needed) stuff normally don't have easy access to (such as throwout bearing, clutch plates, etc) [PBN].	(add reference to transmission/clutch removal section of FTI & PSH etc?)		MISCELLANEOUS See related Miscellaneous Stuff to do When Engine is Removed entry in When Transaxle Removed section [PBN]. Related Clean/Degrease Engine and Transaxle entry in Yearly section [PBN]. Related Have Mechanic Do General All Over Inspection of Car entry in Yearly section [PBN].	Note: If find official maintenance documentation of an item I listed in this "miscellaneous" entry delete it off this entry and create its own separate entry on checklist (and change any affected cross references to this listing), but be sure any useful info/references is also on this checklist elsewhere before delete it off this entry [PBN]. Note: If take off rear deck lid struts when removing transmission/clutch, be sure put them back on with cylinder up (top 1/2) with shaft on bottom (keeps dirt out and has "stop" mechanism in that orientation) [PBN – WEB].

	Never (Historical)					
N/A	[Never* PBN].	Check ZF Transaxle for loose ring gear bolts [PBN].	See Attachment 4 "Maintenance and Safety Inspections (ZF Transaxle Ring Gear)", and PITI Group 16 Article #3 "Transaxle Pinion Gear Repair") [PBN – WEB].		CLUTCH AND TRANSAXLE (TRANSAXLE) Related Check Level/Change Transaxle Oil entry in 5000 Miles section [PBN].	*Note: I had my ZF safety wired [PBN]. Note: I added Teflon tape to drain (not fill) plug to stop slow leak. Have to replace the Teflon tape (or liquid Teflon) each time remove drain (not fill) plug or will leak again. Need to permanently fix this in future. [PBN – TEMP].
N/A	[Never PBN]. [FTI = at 24,000* or 12 months, and 36,000* or 36 months]	Check (adjust, repair, or replace as required) Engine Compression [FTI].	See FTI page 21-01-02 "Compression Test" [FTI].	Compression Pressure: See FTI page 21-01-03 "Quick Reference Compression Pressure Limit Chart" [FTI]; Compression Pressure PSI (Sea Level) at Cranking Speed: When checking compression, take the highest compression reading and compare it to the lowest reading – the lowest reading must be within 75% of the highest [FTI page 21-22-28].	ENGINE (COMPRESSION)	*Note: Assume was something only do twice in first 36,000 miles/36 months of a new car, not a periodic thing (Steve (MECH) said never heard of regularly checking engine compression (unless causing a problem)) [PBN]. <u>Need to do this periodically</u> for some reason? (if so, move entry up to scheduled section)
N/A	[Never* PBN].	Torque Oil Pan Bolts [FTI].	See FTI page 53-05-01 "Torque Oil Pan Bolts" [FTI].	Oil Pan to Cylinder Block Torque Limit (Ft-Lb): 11-13 (5/16 x 18), 7-9 (1/4 x 20) [FTI page 21-22-32]; 7 to 9 ft-lb (Oil Pan Bolts Torque) [FTI page 53-05-01]. Oil Pan Bolts Torquing: Start with the center bolts on each side [FTI page 53-05-01]	ENGINE (OIL PAN)	*Note: Not something you need to do periodically, only if have a problem [MECH]. (need to confirm this) Note: I assume this info is just for whenever you have to take pan off for some reason [PBN]
N/A	[Never* PBN]. [FTI = 8000 or 8 months (more often if operated in severe dust conditions)]	Replace** Crankcase -Emission Filter in Air Cleaner [FTI].	See FTI page 24-41-01 "Removal and Installation (Crankcase Ventilation Filter)" [FTI].		FUEL SYSTEM (AIR CLEANER AND FILTER) Related Replace Air Cleaner entry in 10,000 Miles section [PBN]. Related Check Air Cleaner Temperature Control entry in 15,000 Miles section [PBN].	Note: Previous owner replaced the original air cleaner* with one that would fit with the Edelbrock Torker manifold when he changed carburetor and intake manifold (I replaced that one with an aftermarket Pantera script air cleaner), therefore some of the references may not be applicable [PBN]. *Note: I have an aftermarket air cleaner that doesn't have this, so don't need to replace it [MECH]. (Steve was pretty sure I don't have one – need to confirm; if have it move this to 10,000 mile section). **Note: Cleaning the crankcase ventilation filter element is not recommended, it should be replaced at the specified mileage intervals [FTI page 24-01-03].

NI/A	[Nauau* DDN]	Doplace the Steel State J During F 1	San DOCA NI Ann 2002 WEL- Eine		ELIEL OVOTEM	*Notor Lucela 1
		Filters in Holley** Carburetors [POCA NL Apr 2002 – Attachment 23 "POCANLapr2002etc"]. [['m assuming you "replace" – maybe you just "clean" it?]	Most Neglected Maintenance Areas in your Pantera (The stock sintered bronze fuel filters in Holley carburetors)" including Attachment 23 "POCANLapr2002etc" [POCA NL].		(CARBURETOR) Related Underbody Protection (rust and corrosion) Check entry in Yearly Section [PBN – TEMP]. Related Change Fuel Filter (due to gas tank filler neck rust) entry in 5000 Miles section [PBN - TEMP]. Related Replace Fuel Filter entry in 10,000 Miles section [PBN]. Related Keep Carburetor in Good Operating Condition entry in 15,000 Miles section [PBN]. Related Inspect Fuel Lines & Connection entry in 15,000 Miles section [PBN]	carburetor with a Holley 600 (does not contain in line morain fuel filters) [PBN – Holley 600 carburetor Installation and Adjustment Instructions]. (need to confirm the morain fuel filter is the filter this Attachment 23 item is referring to – if not may need to move out of "Never" section) **Note: These filters are included with most 4bbls. Rochesters have a single tiny paper filter cartridge. Holley dual-inlets have two sintered bronze [POCA NL Apr 2002 – Attachment 23 "POCANLapr2002etc"].
N/A	[Never* PBN]. [OM = every 8000 miles or 8 months]; [FTI = inspect at 12,000 or 12 months, replace at 24,000 or 24 months pattern]	 Inspect (adjust, repair, or replace as required) Points [FTI]; Check and Adjust Distributor Points (clean distributor cap and coil, inspect and clean points, check/adjust point gap) [FTI page 53-04-02]; Inspect, Clean, and Adjust Breaker Points as necessary (replace breaker point assembly if the contacts are badly burned or excessive metal transfer between the points is evident) [FTI page 23-01-12, 53-04-02]; <i>Correct Distributor Point Condition and Gap is very important to optimum Holley 600 Carburetor efficiency and performance [Holley 600** Carburetor Installation and Adjustment Instructions page 4]</i>. Check Distributor Contact Gap [OM]; Inspect (and, if necessary, adjust) Breaker Point Gap [OM page 49]. Clean Distributor Cam, Adjust Breaker Point Spring Tension, Align and Adjust the Breaker Points [FTI page 23-01-10]. Check/Adjust Breaker Point Spring Tension [FTI page 23-01-08]. Point Condition and Dwell [PITI Group 52 Article 1]. Check/Adjust Dwell Angle [FTI page 23-01-05]. 	See OM page 49 "Breaker Point Gap", "Distributor Point Replacement" [OM]. See FTI pages 53-04-02 "Check and Adjust Distributor Points", 23-01-08 "Breaker Points and/or Condenser (Breaker Point Alignment, Breaker Point Gap Adjustment, Breaker Point Spring Tension Adjustment)", 23-01-09 "Removal and Installation (Vacuum Hose, Breaker Points and/or Condenser)", 23-01-09 "Removal and Installation (Breaker Points and/or Condenser)", 23-01-09 "Removal and Installation (Breaker Points and/or Condenser)", 23-01-01 "Cleaning and Inspection (Distributor)", 23-01-05 "Dwell Angle Check", "Dual Breaker Point Dwell", 23-01-07 "Adjustments (General Procedures – check distributor automatic advance for proper operation)", 23-10-03 "Removal and Installation (Distributor)" [FTI]. See PITI Group 23 Article #3 "Changing The Points" [PITI]. See Attachment 2 "Pantera Tune Up Ideas (Distributor Points)" [WEB].	Clean Breaker Points: Chloroform and a stiff bristle brush [FTI page 53-04-02, 23-01-12]. Adjusting Points: Use Dwell Meter [WEB - Attachment 2 "Pantera Tune Up Ideas (Distributor Points)"]. Breaker Arm Spring Tension (Pivot type breaker points only): 17.21 oz [FTI page 23-10-05]. Metal Transfer: Is considered excessive when it equals or exceeds the gap setting specification [FTI page 23-01-12, 53-04-02]. Breaker Point Gap or Dwell Specifications: See FTI page 23-10-05 [FTI]. (add exact specs to this?)	IGNITION SYSTEM (DISTRIBUTOR BREAKER POINTS) Related Inspect Distributor Cap & Rotor entry in 30,000 Miles section [PBN]. Related Keep Distributor in Good Operating Condition and Adjusted to Specification entry in 30,000 Miles section [PBN]. Related Check/Clean Distributor Coil entry in 30,000 Miles section [PBN]. Related Lube Distributor Cam entry in Never section below [PBN].	Note: previous owner replaced the original dual point distributor with electronic ignition (Mobelec breakerless CD ignition system) [PBN]. *Note: Don't need to do since have electronic ignition instead of points [MECH]; No points with Mobelec breakerless CD ignition system [PBN – Previous Owner]. Note: Breaker Points and Distributor Points are same thing [MECH]. Note: "Dwell" is just an electronic way to check point/gap adjustment [MECH]. **Note: I replaced carburetor with a Holley 600 [PBN].

N/A	[Never* PBN]. [OM = every 8000 miles or 8 months].	Lube Distributor Cams (contact breaker control cams) [OM pages 35, 48]. Inspect the distributor cam lobes for scoring and signs of wear (if any lobe is scored or worn, replace the distributor [FTI page 23-01-11].	See OM page 48 "Distributor Cam Lubrication" [OM]. See FTI pages 23-01-11 "Cleaning and Inspection (Distributor)", 23-10-03 "Removal and Installation (Cam and Centrifugal Advance Weights)", 23-10- 03 "Removal and Installation (Distributor)" [FTI].	Distributor Cam Lubricant: Special Purpose Grease [OM page 48]; Distributor Cam Lubricant (Ford Part No. C4AZ-19D530-A, Ford Specification ESF-M1C66-A) [FTI page 53-01-03, 23-01-08, 23-01-10, 23-10-03]; Correct distributor Cam lube [WEB - Attachment 2 "Pantera Tune Up Ideas (Distributor Points)"]; Do Not use engine oil to lubricate the distributor cam [FTI page 23- 01-08]; Do not use any type of oil [FTI page 23-01-10]. Lubing Distributor Cam:	IGNITION SYSTEM (DISTRIBUTOR CAM AND CENTRIFUGAL ADVANCE WEIGHTS) Related Keep Distributor in Good Operating Condition and Adjusted to Specification entry in 30,000 Miles section [PBN]. Related Clean Distributor Cam item in Inspect Distributor Points entry in Never section above [PBN].	Note: previous owner replaced the original dual point distributor with electronic ignition (Mobelec breakerless CD ignition system) [PBN]. *Note: Don't need to do since no longer have points (have electronic ignition) [MECH]. Note: Lubing Distributor Bearing and Lubing Distributor Cams are different things [MECH].
N/A	<i>[Never* PBN].</i> [PITI = 5000** miles].	Condenser [PITI Group 52 Article #1]; Correct Condensor and wiring is very important to optimum Holley 600 Carburetor efficiency and performance [Holley 600*** Carburetor Installation and Adjustment Instructions page 4]. Is this maintenance? – what is the maintenance activity (think the guy inspected/replaced the condenser every so often?)? Why was it listed in maintenance stuff in PITI Group 52 Article #1? Delete this entry (and cross references to it) if isn't a maintenance item.	See FTI pages 23-01-08 "Breaker Points and/or Condenser", 23-10-02 "Removal and Installation (Breaker Points and/or Condenser)" [FTI].	Take care not to smear the breaker points during lubrication (causes premature contact deteriorization) [OM page 48]. Conventional Ignition System – Coil Condenser and Primary Circuit Resistor Specifications: See FTI page 23-10-05 [FTI]. (list the individual specs here?) Condenser: Delco D200 [PITI Group 52 Article #1].	IGNITION SYSTEM (DISTRIBUTOR CONDENSER) Related Keep Distributor in Good Operating Condition and Adjusted to Specification entry in 30,000 Miles section [PBN]. Related Check/Adjust Distributor Points/Gap entry in Never section above [PBN].	Note: "Condenser" is ignition (distributor) condenser [MECH]. Note: Need to remove distributor cap to do this maintenance, but wouldn't have to remove entire distributor [MECH]. Note: previous owner replaced the original dual point distributor with electronic ignition (Mobelec breakerless CD ignition system) [PBN].
						*Note: is not applicable to my car since I have electronic ignition (don't have points or condenser) [MECH]. **Note: PITI Group 52 Article #1 author was extremely conservative in his various maintenance frequencies [PBN]. ***Note: I replaced carburetor with a Holley 600 [PBN].

Stuff need to determine if/where to		N/A	[Never* PBN]. [OM = every 8000 miles or 8 months]; [FTI = 12,000 or 12 months]; [TSB = 4000 miles - Bulletin 5 Article #28].	Check Ignition Timing*** [OM]; Adjust Initial Ignition Timing*** [FTI page 52-00-02]; Check and Adjust Ignition Timing*** is Properly set [PITI Group 27 Article #2]; Check Ignition timing*** [TSB Bulletin 5 Article #28]; Correct Engine Timing*** is very important to optimum Holley 600 Carburetor efficiency and performance [Holley 600** Carburetor Installation and Adjustment Instructions page 4].	See OM page 50 "Ignition Timing*** and Idle Speed Adjustment" [OM]. See FTI pages 53-04-02 "Check and Adjust Ignition Timing***", 23-01-07 "Adjustments (General Procedures - check distributor automatic advance for proper operation)", 23-01-09 "Ignition Timing*** (Timing Mark Locations, Initial Ignition Timing)", 23-01-05 "Secondary (High Tension) Wires Resistance Test" [FTI]. See Attachment 2 "Pantera Tune Up Ideas (Distributor Ignition Timing***)" [WEB]. See PSH page 3 "Interior – Service Accessibility (Engine Accessibility)" [PSH]. See Attachment 15 "The Firewall Cover" [WEB].	Ignition Timing*** Adjustment: See "Vehicle Emission Control Information" label in engine compartment [OM page 50]. Advance Setting: Most Panteras are set at 16 BTDC (Advance Setting) at idle with the vacuum lines disconnected, but check the information plate riveted on the inside of the engine compartment for your car's proper setting; if have non-stock Mallory dual point distributor, set the timing to give about 38 total advance [PITI Group 27 Article #2].		IGNITION SYSTEM (IGNITION TIMING) Related Keep Distributor in Good Operating Condition and Adjusted to Specification entry in 30,000 Miles section [PBN]. Related Check Advance & Retard, Cut-in Speed in 15,000 Miles section [PBN].	Note: previous owner replaced the original dual point distributor with electronic ignition (Mobelec breakerless CD ignition system) [PBN]. *Note: Don't need to do since have electronic ignition (timing shouldn't change) instead of points [MECH]; No timing with Mobelec breakerless CD ignition system [PBN – Previous Owner]. **Note: I replaced carburetor with a Holley 600 [PBN]. ***Note: During tuning of certain engines, especially new ones, lean or rich fuel/air mixtures can cause hot spots around 1300 degrees F, with potentially adverse effects to the header and possibly the engine. If you are not very careful, you will damage the Jet-Hot coating and possibly the engine. The coating will definitely turn dull and possibly flake off in excess of these temperatures. During this period we strongly recommend using a large floor fan to cool the entire engine and headers (or if available, use an old set first for tuning). Failure to take these precautions could result in permanent damage to the Jet-Hot coating. Ignition timing is critical to exhaust temperatures which are not reflected by the water temperatures are exceeding 1300 degrees F. [Jet-Hot Coating Instillation and Maintenance Tips, and Caution tag]. Note: This is done with distributor on car (engine running) [MECH].
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		Vapor Injector Level [PITI Group 52 Article 2].			What system/component is this?	Is this something I have on my car (may have been
		-				some special thing he added
					Need to add cross refs to this	to his car), or a different
					if move into main section	name for something already
						elsewhere on this list? If so,
						need to add it. Note: page I
						got this from says he uses
						Acetone and Distilled water
						for this.
		Engine Performance Checks required to			Need to add cross refs to this	Note: Assume this is
		keep the exhaust emissions at the			if move into main section	covered by other stuff on
		specified minimum pollutant level [FTI				this checklist, as the FTI
		page 23-01-02].				(page 23-01-02) says to
						refer to the OM for these
						performance checks and the
						recommended intervals
						[PBN].
						Need to list this with each
						of the indicated engine
						performance checks in the
						above checklist if can
						determine what they are
						determine what they are.
						Note: Previous owner
						replaced original exhaust
						system (headers, manifolds,
						tailpipes and mufflers) with
						"Mind-Train Enterprises
						"Big Throats" Exhaust
						System" [PBN].
						Note: Previous owner
						removed vacuum smog
						control stuff [PBN].
		Fuel Pump Cleaning and Inspection	See FTI page 24-01-04 "Cleaning and	Fuel Pump Cleaning:	Need to add cross refs to this	Is this supposed to be done
		(inspect for cracks or other damage;	Inspection (Fuel Pump)", 24-30-01	Use a Cloth [FTI page 24-01-04].	(tuel system) if move into	periodically (if so how
		inspect mounting flange for distortion;	Fuel rump Testing (Pressure Tests,	Evel Dener Statia Decama (main section	otten), or was the entry in
		the realizer arm for wear, arealizer and	Capacity (Volume) Test) ⁻ [F11].	Fuel Pump Static Pressure (psi @		<u>F 11 just for in case have</u>
		demage) [ETL page 24 01 04]		5.0 to 7.0 [ETL mage 24.20.01.24		<u>iuei pump problem?</u>
		damage) [F11 page 24-01-04].		3.0 to 7.0 [F 11 page 24-30-01, 24-		
				50-05 J. Fuel Pump Canacity (Maximum		
				Volume Flow @ 500 Eng. PPM)		
				At least one pint of fuel should be		
				discharged within 20 seconds IFTI		1
				nage 24-30-02 24-30-03]		1
1	1	1	1	Pube = 1 50 02, 21 50 05].		1

	Test Air Cleaner Duct System is functioning properly [FTI page 24-42- 01]. Check Duct and Valve Assembly: Check that duct valve is open when engine off, and closes during engine idle unless engine has reached normal operating temperature, check the bimetal switch to see that the bleed valve is seated, check that duct valve opens during throttle opening (correct if required); Check the functioning of the bimetal switch (<u>are</u> these "instructions" rather than checks?) [FTI page 24-42-01]. Check operation of the vacuum motor attached to the air cleaner: Check that vacuum motor plate is fully closed with engine started and zip tube removed from the air cleaner duct, check that plate is full open with vacuum hose removed from vacuum motor (<u>are these</u> <u>"instructions" rather than checks?</u>] [FTI page 244 2001	See FTI page 24-42-01 "Testing (Duct and Valve Assembly – Vacuum Operated)", 24-42-02 "Auxiliary Air Inlet Valve" [FTI].		Need to add cross refs to this (air cleaner) if move into main section	Note: Previous owner replaced the original air cleaner with one that would fit with the Edelbrock Torker manifold when he changed carburetor and intake manifold (I replaced that one with an aftermarket Pantera script air cleaner), therefore some of the references may not be applicable [PBN]. Is this supposed to be done periodically (if so how often), or was the entry in FTI just for in case have problem?
	Test Cooling System Thermostat (replace if doesn't function correctly) [FTI page 27-01-02].	See FTI page 27-01-02 "Thermostat Test" [FTI]. See PITI Group 27 Article #6 "Radiator Thermostat Replacement" [PITI].	Thermostat Temperature Settings: 185-192 degrees F (Start to Open), 210-216 degrees F (Fully Open) [FTI page 27-01-02].	Need to add cross refs to this if move into main section	Is this supposed to be done periodically (if so how often), or was the entry in FTI just for in case have problem? See also note I have in draining Coolant 15000 mile entry about confirming I have correct thermostat.
	Test Temperature Gauge [FTI page 33- 06-03].	See FTI page 33-06-03 "Testing (Temperature Gauge)" [FTI].	Temperature Gauge Test Equipment: Rotunda Gauge System Tester No. WRE 500-70 [FTI page 33-06-03].	Need to add cross refs(INSTRUMENTATION) to this if move into main section	Is this supposed to be done periodically (if so how often), or was the entry in FTI just for in case have problem? Note: Previous owner moved water temperature sender from surge tank to front of engine block [PBN].
	Check Speedometer Accuracy, and Odometer accuracy [FTI page 33-06- 03].	See FTI page 33-06-03 "Testing (Speedometer and Odometer)" [FTI].		Need to add cross refs (INSTRUMENTATION) to this if move into main section	Is this supposed to be done periodically (if so how often), or was the entry in FTI just for in case have problem?
	Test Fuel Gauge [FTI page 33-06-03].	See FTI page 33-06-03 "Testing (Fuel Gauge)" [FTI].	Fuel Gauge Test Equipment: Rotunda Gauge System Tester No. WRE 500-70 [FTI page 33-06-03].	Need to add cross refs(INSTRUMENTATION) to this if move into main section	Is this supposed to be done periodically (if so how often), or was the entry in FTI just for in case have problem?
	Correct valve and correct operation of exhaust heat valve is very important to optimum Holley 600 Carburetor efficiency and performance [Holley 600* Carburetor Installation and Adjustment Instructions page 4]. What does this apply to (carb, distributor, or something else?) – it was in my carb instructions				*Note: I replaced carburetor with a Holley 600 [PBN]. Note: Previous owner removed vacuum smog control stuff [PBN]. (does this apply to this entry?)

	Which other engine tests listed in FTI			
	Section 21-01 "Diagnosis and Testing"			
	(besides "Timing Chain Deflection"			
	"Compression Test", and "Hydraulic			
	Valve Lifter" which I have already listed			
	on this checklist) should be part of			
	"Routine maintenace"? – obviously not			
	any that require taking the engine out (or			
	do L need to take those 3 I've already			
	incorporated off)			
	When I replaced earb with a Holloy 600			
	when I replaced carb with a noney 600			
	<u>caro, i aiso replaced the intake mannoid</u>			
	(IFOM SLOCK LOE del DFOCK I OFKET LO Edel breek Derfermer) de se thet offect			
	Edeblock Performer) – does that affect			
	DITLO 11 A to 1 // 4 (SD to			
	PITI Group 11 Article #4 "Pantera			
	Detomaso L & GTS Optional Fitment &			
	Setting has a specification labeled			
	$\frac{1}{B} - \text{need to find out what that stands}$			
	tor (offset backspace?) and incorporate			
	<u>it into this checklist if/where</u>			
	appropriate.			
	When engine was rebuilt by Holman &			
	moody, they used 1-piece (not 2-piece)			
	valves, and bored the block out to next			
	standard size larger - does that affect			
	any items on this list (ask mechanic)			
	Stuff need to do to finish checklist			
	Stuff need to do to finish checklist (Section Removed)			
	Stuff need to do to finish checklist (Section Removed)			
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ATTACHMENTS (double-click to open):







25. Transaxle Angle Drive Special Tool:



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27. Bakers Dozen Engine Upgrades: