

COMPREHENSIVE CAR MAINTENANCE

VEHICLE CARE and PLANNING GUIDE

all CONSUMABLE PARTS REPLACEMENT

SIMPLIFIED MAINTENANCE MANAGEMENT

**NEEDS vs. METHODS WITH PROGRAMMED:
MAINTENANCE CHECKLIST/SIGN OFF BLOCKS
PROGRESSIVE LOGBOOK with NOTE SPACE
OPERATIONS AND SURVEILLANCE HELPS
VEHICLE OWNER OR USER'S RECORDS**

**CAR AND DRIVER QUALIFICATIONS CARD
With EMERGENCY TIPS and RESPONSES**

**PROVEN METHODS FOR:
DIAGNOSTIC MAINTENANCE
PREVENTATIVE MAINTENANCE
CORRECTIVE MAINTENANCE**

**TO GIVE:
INCREASED VEHICLE PERFORMANCE
INCREASED SYSTEMS RELIABILITY**

**RESULTING IN:
FEWER MAINTENANCE PROBLEMS
GREATER VEHICLE DEPENDABILITY
SENSE OF PLANNED ACCOMPLISHMENT
A PROACTIVE ATTITUDE, STAYING IN TUNE
"VEHICLE READINESS AND PIECE OF MIND!"**

**YOU'VE DONE THE BEST YOU COULD DO!!!
NOW, FORGET THE YOU PAY ME LATEERS!!!!**

MICHAEL J. (MIKE) KRISMAN

TABLE OF CONTENTS

APP. A WHY THIS SYSTEM, STEP-BY STEP?????

APP. B VARIOUS WINDOW DISPLAYED SAFETY SIGNS

ADMINISTRATIVE AND REGULATORY SCHEDULE/DATES

1. *RENEW DRIVERS LICENSE and FILE*
 2. *RENEW VEHICLE LICENSE and FILE*
 3. *RENEW INSURANCE POLICY and FILE*
 4. *DO SMOG/VEHICLE INSPECTION and FILE*
- *ON BOARD FILE OF DOCUMENTS AND RECORDS REQUIRED

RUBBER ITEMS TASKS

5. TIRES AND WHEELS
6. ENGINE BELTS
7. WATER HOSES
8. WINDSHIELD WIPERS
9. WHEEL BOOTS
10. VACUUM AND MISCELLANEOUS HOSES

FILTER TASKS

11. OIL FILTER CHANGE
12. GAS FILTER CHANGE
13. AIR FILTER CHANGE
14. TRANSMISSION FILTER CHANGE

FLUID TASKS

15. ENGINE OIL CHANGE AND CHECKS
16. TRANS. FLUID FOR AUTOMATIC OR MANUAL
17. BRAKE FLUID CHECKS
18. POWER STEERING CHECKS
19. BATTERY AND ALTERNATOR CHECKS
20. WINDSHIELD CLEANING FLUID
21. ENGINE COOLANT AND ANTIFREEZE
22. AIR CONDITIONER and REFRIGERANT CHECKS
23. LEAK CHECKS FOR ALL FLUIDS

GREASE TASKS

24. FRONT END AND WHEELS
25. REAR END AND WHEELS
26. UNIVERSAL JOINTS AND OTHER MISC.

PERFORMANCE TASKS

27. ENGINE TUNE-UP
28. MILES PER GALLON FUEL USAGE
29. ENGINE DIAGNOSTIC CHECKS
30. SMOG RELATED CHECKS AND COMPONENTS

MECHANICAL TASKS

31. EMERGENCY BRAKE
32. FRONT END ALIGNMENT
33. SHOCK ABSORBERS/ STRUTS FRONT/BACK
34. BRAKE LININGS FRONT AND BACK
35. MECHANICAL CLUTCH PLATE IF APPLICABLE

ELECTRICAL TASKS

36. HEADLIGHTS
37. RUNNING LIGHTS, SIGNAL AND BRAKE LIGHTS
38. PANEL & TROUBLE LIGHTS, EMERGENCY LIGHTS
39. BATTERY CHECKS, ALTERNATOR CHECKS
40. ELECTRONICS, COMPUTER AND SENSORS

MAINTENANCE SCHEDULE/CHECKLISTED TASKS FOR:

ATT. A. ADMIN TASKS, RUBBER ITEMS and FILTERS

ATT. B. FLUIDS and GREASE

ATT. C PERFORMANCE, MECHANICAL & ELECTRICAL

ATT. D ADD YOUR ADDITIONAL REQUIREMENTS

READ YOUR VEHICLE'S OWNERS MANUAL. KNOW WHERE SAFETY EQUIPMENT AND AUXILIARIES ARE LOCATED AND PRACTICE USING THEM. Know how to react to abnormal events.

And now, the philosophy part! Because you have been ambitious enough to use this guide, you obviously care about vehicle upkeep.

In fairness, your vehicle is going to require the same upkeep of you. With a KNOWLEDGE AND ABILITIES responsibility it calls YOUR:

ASSESSMENT PLAN: for MAINTENANCE and OPERATIONS

*The performing of Detective and Preventative Maintenance may be new to you. They use your senses of smell, touch, sight and hearing to a maximum as *DIAGNOSTIC & ANALYSIS* sensory devices; and, then your *brain* to make inquiries and to detect differences. *So as to identify with the normal,*

so that, the abnormal CAN BE DETECTED. Gaining decision-making intelligence! A discipline focused systematic approach to maintenance. **DO WHAT'S NEEDED? HOW DO I KNOW?**

SEE ATTACHMENT'S - PERFORM TASKS EVERY 4,000 MILES WHEN YOU HAVE DONE THE STEPS OUTLINED FOR EACH TASK, SIGN OFF IT'S BLOCK ON ITS ATTACHMENT CHECKLIST.

CAUTION: THESE CHECKLISTS ARE SET UP ON A PERIODICITY WHICH MAY DIFFER FROM WARRANTY REQUIREMENTS. CONSULT YOURS & WRITE IN YOUR OWN CHANGES. THESE CHECKLISTS ARE NOW THE VEHICLE'S WAY OF HOLDING YOU ACCOUNTABLE.

USE A DISCIPLINED FOLLOWING OF THESE 10 STEPS!!!

1. USE the checklists to guide your pro-active approach.
2. TUNE yourself to be analysis sensitive.
3. LOG & monitor events and trends as they occur.
4. PERFORM scheduled DIAGNOSTIC checks.
5. GET a second opinion on symptoms.
6. DO/GET corrective maintenance done as needed.
7. SHOP for parts sales & CARRY consumable items spares.
8. IDENTIFY with a certified mechanic who will answer questions and help you to FOLLOWS the cars history. A second opinion.
9. CONSULT your Maint. Manual for MAINTENANCE specifics.
10. **DON'T ALLOW SYMPTOMS TO TURN INTO DANGEROUS OR COSTLY OR UNTIMELY SITUATIONS.*****

Log and Track your vehicles symptoms, actions and results history using THIS RECORD KEEPING FORMAT, abbreviated as follows:

MILEAGE/DATE/SYMPTOMS/ACTIONS/RESULTS/SCOSTS

**MILEAGE/DATE _____ /SYMPTOM _____
/ACTION _____
/RESULTS _____ SCOSTS _____**

**M 27820 /D 11/21/92 /S A/C AIR NOT COOL, blowing fuses
/A replace compressor and recharged system with new type of refrigerant
/R A/C WORKS, COLD AIR, belt replaced, cooler coils cleaned \$W+\$140**

Filters...Filters...Filters Fluids Fluids Fluids Fluids

Task # Due at Mileage	11 Oil	12 Gas	13 Air	14 Trans	15 Eng. Oil	16 Trans. M/A	17 Brake F/B	18 Pwr. Steer
4000	R				R			
8000	R				R			
12000	R				R		O	O
16000	R				R			
20000	R				R			
24000	R			O	R	O	O	O
28000	R				R			
32000	R		R		R			
36000	R				R		O	O
40000	R	R			R			
44000	R				R			
48000	R			O	R	O	O	O
52000	R			R	R	R		
56000	R				R			
60000	R				R		O	O
64000	R		R		R			
68000	R				R			
72000	R			O	R	O	O	O
76000	R				R			
80000	R	R			R			
84000	R				R		O	O
88000	R				R			
92000	R				R			
96000	R		R	O	R	O	O	O
100000	R			R	R	R	R	R

TASK #6 - BELTS (FAN & TIMING) - TASK #6

PART # _____ # _____ # _____ # _____ # _____
MAINTENANCE MANUAL PAGE # _____ # _____ # _____ # _____

REQUIREMENTS: Replace every 52,000 Mi. O/C at every 12,000 miles.

1. Change out and replace with new belts.
2. Timing belt breakage may cause serious and expensive engine damage.
3. Prevent costly & time-consuming breakdowns. These things fail often.
4. Some belts are hard to find and hard to check and difficult to replace.

PREREQUISITES: Consult Maint. Manual for step by step replacement. Have all belts needed on hand. Carry a spare set of belts for emergencies.

PRECAUTIONS:

1. Do not stretch or over tighten belts when replacing them.
2. For timing belts, match-mark valve & crank sprockets to keep correct engine timing.

ACTIVITY:

1. Loosen all tensioners, brackets or adjustments needed for replacements.
2. Replace all belts. Check for proper tension and for proper tracking.
3. Re-tighten as recommended.

OPERATIONAL CHECKS:

1. Once all belts are in place and tensioned correctly, start engine.
2. Check that all engine auxiliaries are functioning.
3. Check that no belt slap exists (too loose) or that no belts are under excess strain. Each belt should have at least 1" side to side flexibility.
4. Use belt dressing or apply a soap coating, using a dry bar of soap, to eliminate belt squealing.
5. Listen closely to each rotating auxiliary or rotating component for whining, squealing or rasping sound to detect a failing bearing.

DIAGNOSTIC CHECKS: EFFECT - CAUSE

1. Sudden loss of any or all auxiliaries cooling, power steering, alternator or air conditioning- possible loose belt or broken belt.
2. For belt driven valves, if engine shuts down inadvertently, check to see if the timing belt has broken. The engine will need retiming after belt replacement.

* Carry spare belts, store in a plastic bag either in the trunk or under the hood and secure away from moving parts.

Qualifications Card Checklist by Categories

1. *Personal readiness and mental and physical abilities*
2. *Knowledge and Abilities of this vehicle and its systems*
3. *Manipulative Skills for this vehicle and its systems*
4. *Safety Equipment on board*
5. *Normal and Off-Normal assessment capability of driving hazards*
6. *Emergency Preparedness and practices for casualty events*
7. *Completed your Qual Card talk-through with a competent, and interested in your and your vehicles' welfare, Qualifier?*
8. Now, you have completed your vehicle's accountability of you and of your ability for maintaining your personal vehicle operations maintenance, in the same material condition you are expecting of it. Wonderful! You are looking out for each other!

Good luck to both of you, you have made great strides to be the **“Best you can be” and you are to be congratulated.** I hope this system of disciplines has served you well.

Lots of suggestions present themselves throughout the book like this:

*** IT'S A LOT EASIER TO FIND A MECHANIC AND TOOLS WHEN BROKE DOWN THAN IT IS TO FIND YOUR SPECIFIC PARTS! Keep a set of belts and hoses stored within your trunk!**

SEND COMMENTS TO:

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Also: I have written a novel titled **CRISIS SURVIVAL** that deals with the California electricity crisis and with what to expect and how to react. A very intriguing set of consequences play out.

Ebookstand is again my publisher. Call up the preview and order at:

<http://www.ebookstand.com/m/mjkrisman>