INTRODUCTION

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PRECAUTIONS FOR VEHICLES EQUIPPED WITH A CATALYTIC CONVERTER	
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HOW TO USE THIS MANUAL

To assist in finding your way through the manual, the Sectio Title and major heading are given at the top of every page.

An INDEX is provided on the first page of each section to guid you to the item to be repaired.

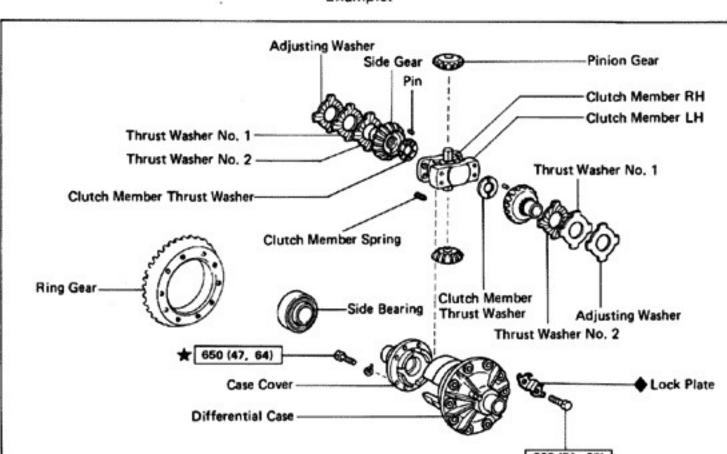
At the beginning of each section, PRECAUTIONS are given the pertain to all repair operations contained in that section. Rea these precautions before starting any repair task.

TROUBLESHOOTING tables are included for each system thelp you diagnose the system problem and find the cause. The repair for each possible cause is referenced in the remediculumn to quickly lead you to the solution.

REPAIR PROCEDURES

Most repair operations begin with an overview illustration. I identifies the components and shows how the parts fit together

Example:



The procedures are presented in a step-by-step format:

- The photo or illustration shows what to do and where to do it.
- The task heading tells what to do.
- The detailed text tells how to perform the task and gives other information such as specifications and warnings.

Photograph or Illustration: what to do and where

Example:

Task heading: what to do

21. CHECK PISTON STROKE OF OVERDRIVE BRAKE

(a) Place SST and a dial indicator onto the overdrive brake piston as shown in the figure.

SST 09350-30020 (09350-06120)

Set part No.

Component part No.

Detail text: how to do it

(b) Measure the stroke applying and releasing the compressed air (4 - 8 kg/cm², 57 - 114 psi or 392 - 785 kPa) as shown in the figure.

Piston stroke: 1.40 - 1.70 mm (0.0551 - 0.0669 in.)

Specification

This format provides the experienced technician with a FAST TRACK to the information needed. The upper case task heading can be read at a glance and only when necessary, the text below it provides detailed information. Important specifications and warnings always stand out in bold type.

REFERENCES

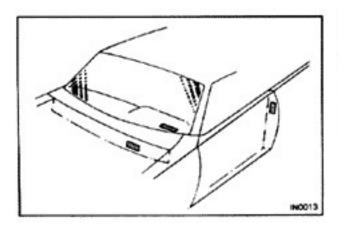
References have been kept to a minimum. However, when they are required you are given the page to go to.

SPECIFICATIONS

Specifications are presented in bold type throughout the text in the applicable step. You never have to leave the procedure to look up your specs. All specifications are also found in Appendex A, specifications, for quick reference.

WARNINGS, CAUTIONS, NOTES:

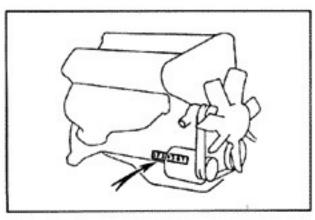
- WARNINGS are presented in bold type, and indicate there is a possibility of injury to you or other people.
- CAUTIONS are also presented in bold type, and indicate the possibility of damage to the components being repaired.
- NOTES are separated from the text but do not appear in They provide additional information to help you efficiently perform the repair.



IDENTIFICATION INFORMATION

VEHICLE IDENTIFICATION NUMBER

The vehicle identification number is stamped on the cowl pane of the engine compartment. This number is also stamped on top of the instrument panel and the driver's door post.

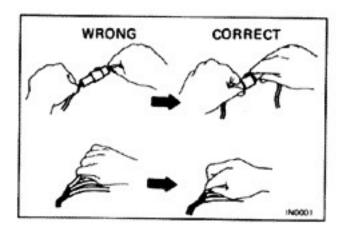


ENGINE SERIAL NUMBER

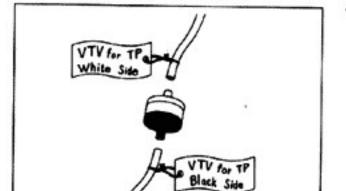
The engine serial number is stamped on the right side of the cylinder block.

GENERAL REPAIR INSTRUCTIONS

- Use fender seat and floor covers to keep the vehicle clear and prevent damage.
- During disassembly, keep parts in order to facilitate re assembly.
- Observe the following:
 - Before performing electrical work, disconnect the nagative from the battery terminal.
 - (b) If it is necessary to disconnect the battery for inspection or repair, always disconnect the cable from the negative (-) terminal which is grounded to the vehicle body.
 - (c) To prevent damage to the battery terminal post loosen the terminal nut and raise the cable straigh up without twisting it or prying it.
 - (d) Clean the battery terminal posts and cable terminal with a shop rag. Do not scrape them with a file of other adrasive object.
 - (e) Install the cable terminal to the battery post with the nut loose, and tighten the nut after installation Do not use a hammer to tap the terminal onto the post.
 - (f) Be sure the cover for the positive (+) terminal is properly in place.
- Check hose and wiring connectors to make sure that the are secure and correct.



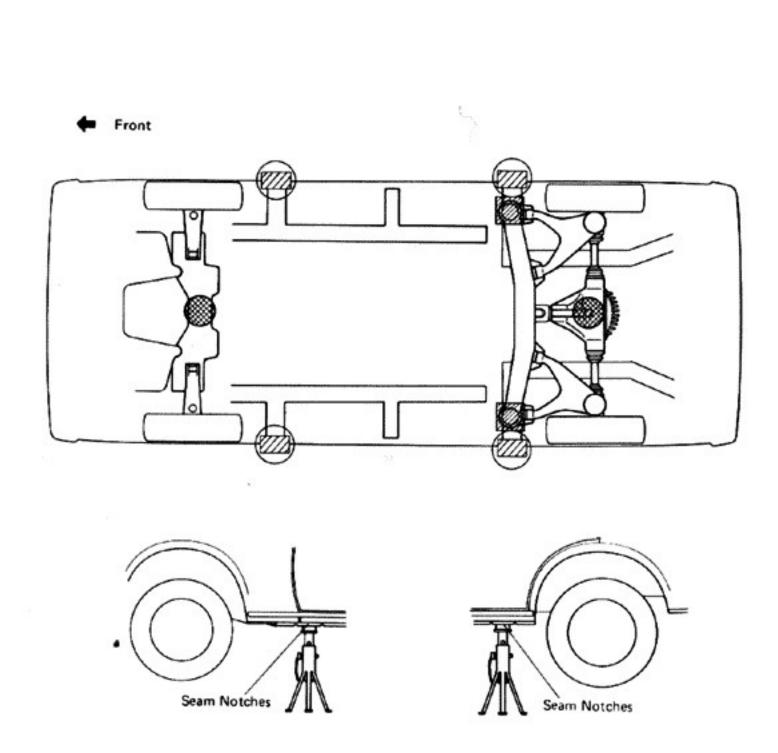
- 12. Observe the following precautions to avoid damage to the parts:
 - (a) To disconnect vacuum hoses, pull on the end, not the middle of the hose.
 - (b) To pull apart electrical connectors, pull on the connector itself, not the wires.
 - (c) Be careful not to drop electrical components, such a sensors or relays. If they are dropped on a hard floo they should be replaced and not reused.
 - (d) When steam cleaning an engine, protect the di tributor, coil, air filter, carburetor intake, air pum and VCV from water.
 - (e) Never use an impact wrench to remove or insta thermo switches or thermo sensors.
 - (f) When checking continuity at the wire connecto insert the tester probe carefully to prevent termina from bending.
 - (g) When using a vacuum gauge, never force the hos onto a connector that is too large. Use a step-dow adapter instead. Once the hose has been stretched, i may leak.



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- 13. Tag hoses before disconnecting them:
 - (a) When disconnecting vacuum hoses, use tags to identify fy how they should be reconnected.
 - (b) After completing a job, double check that the vacuum hoses are properly connected. A label under the hood shows the proper layout.

VEHICLE LIFT AND SUPPORT LOCATIONS



Front Center of crossmember

ABBREVIATIONS USED IN THIS MANUAL

A/C Air Conditioner Automatic Locking Retractor ALR A/T, ATM Automatic Transmission ATF Automatic Transmission Fluid Overdrive Brake Bo No. 1 Brake В No. 2 Brake B_2 B₃ No. 3 Brake BDC Bottom Dead Center BTDC Before Top Dead Center BVSV Bimetal Vacuum Switching Valve Overdrive Direct Clutch C_o Front Clutch C_1 C₂ C/B Rear Clutch Circuit Breaker DOHC Double Over Head Cam Dash Pot DP DVV Double Vacuum Valve ECT Electronic Controlled Transmission Electronic Controlled Unit ECU Electronic Fuel Injection EFI EGR Exhaust Gas Recirculation Emergency Locking Retractor ELR EPR Evaporator Pressure Regulator Electronic Spark Advance ESA Electronic Tuning Radio ETR EVAP Evaporative (Emission Control) Exhaust (manifold, valve) EX Except Ex. FL Front Left Front Right FR IG Ignition Intake (manifold, valve) IN Independent Rear Suspension IRS ISC Idle Speed Control LH Left-hand Left-hand Drive LHD Limited Slip Differential LSD MP Multipurpose Manual Transmission M/T, MTM Overdrive OD OPT Option Oversize O/S Positive Crankcase Ventilation PCV PS Power Steering RH Right-hand Rear Left RL

RH Right-hand
RL Rear Left
RR Rear Right
SED Sedan

SSM Special Service Materials SST Special Service Tools

STD Standard S/W Switch

T/C Torque Converter

TCCS Toyota Computer Controlled System

TDC Top Dead Center
TWC Three-Way Catalyst
U/S Undersize

Vacuum Switching Value