



WORKSHEET 6 (On-Car)
Diagnostic Tester Sensor Check

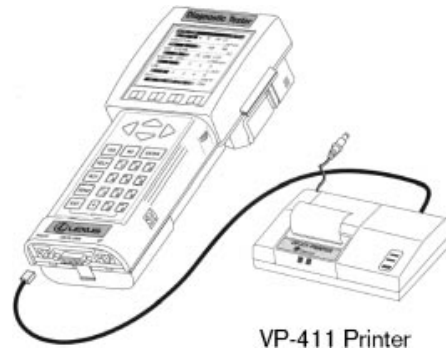
Vehicle	Year/Prod. Date	Engine	Transmission
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Worksheet Objective

In this worksheet, you will practice the use of the Toyota Diagnostic Tester to monitor signal data, observe charted signals, and print 5 sensor/output signals.

Tools and Equipment

- Vehicle Repair Manual
- Diagnostic Tester (TOY220036)
- Vetronics Printer



VP-411 Printer

T273H234

Section 1

Auto Trans Sensor Check Procedure

1. Attach the DLC cable to the hand held tester and attach the DLC3 connector cable to the DLC cable.
2. Attach the connector cable to the vehicle's DLC3 connector.
3. Attach VP-411 printer to the Diagnostic Tester.
4. Turn the ignition switch to ON and power up the unit and select ENTER.
5. At the main menu select enhanced OBD II and press enter.
6. At the Mode Selection screen select NORMAL MODE.
7. At the Enhanced OBD II MENU select CURRENT DATA and then select DATA LIST.
8. From the SELECT DATA select ATM.

Throttle Pos	PNP Switch	Stop Light Switch	O/D Cut Switch 2	Reverse	2nd	low
OK / NG	OK / NG	OK / NG	OK / NG	OK / NG	OK / NG	OK / NG

9. Operate each of the switches in the chart below and circle it's condition

Engine Speed	Coolant Temp	Vehicle Speed	Shift	Lock-up Solenoid
mph	deg.F	mph	1st 2nd 3rd OD	OK / NG

10. Drive the vehicle while the passenger observes the screen. Record information in the second row of the chart below.

11. If the Overdrive Cut Switch reading remains OFF regardless of the switch position, what is the likely cause?

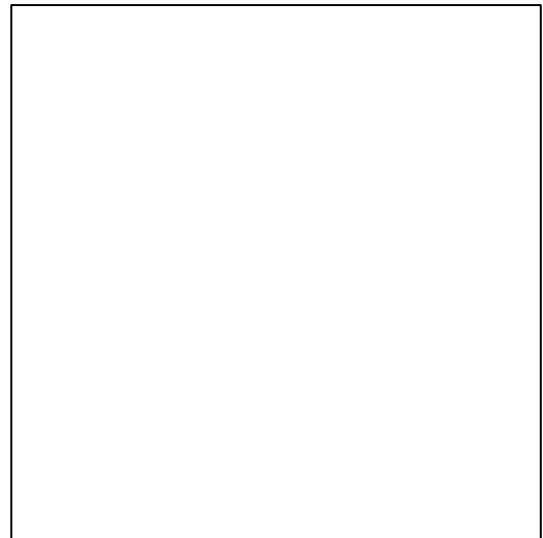
12. In the example above, what symptom/s would be noted?

13. If the engine temp remained at 284°F, what malfunction is indicated?

Section 2

Line Graph Mode

1. Press F4 to select LINE GRAPH mode.
2. Press * and YES until Throttle Position is displayed.
3. Press the down arrow once to highlight the second line.
4. Press * and YES until Shift is displayed.
5. Drive the vehicle up to 35 mph and press the accelerator to achieve a downshift.
6. Press # and SEND simultaneously to print.
8. Paste the printout in the box at right.



Section 3

Manual Snapshot

1. Press EXIT to return to Current Data Menu.
2. Select MANUAL SNAPSHOT from the User Data Menu.
3. Use down arrow to highlight USER DATA then press ENTER.
4. Use up/down arrows to highlight the following sensors and press YES to select them. When finished press the ENTER key:
 - a. Calculated Load (CALC LOAD).
 - b. Engine Speed.
 - c. Throttle Position.
 - d. Vehicle Speed.
 - e. Shift.
5. Use the left and right arrow keys to select the 100 time scale.
6. Use the up and down arrow keys to highlight the second line.
7. Press * and YES simultaneously until SHIFT appears.
8. Drive the vehicle and note the calculated load and shift lines.
9. Press ENTER to trigger the snapshot when the test emits a second “beep”.
10. Press YES when prompted to save the snapshot data.

Section 4

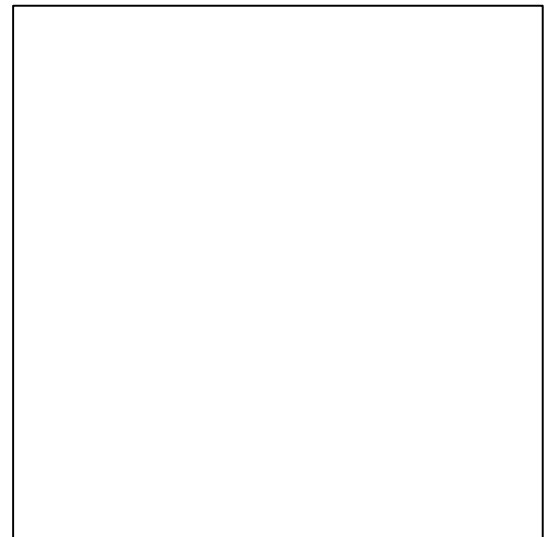
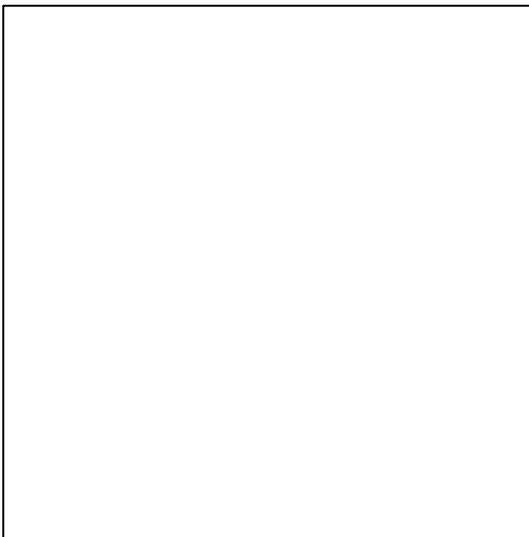
Replay Snapshot

1. To replay snapshot press EXIT and then press 4 from the CURRENT DATA menu.
2. Press the up and down arrow to highlight the stored snapshot and press ENTER.
3. Press the left arrow key until the time reads -10 sec.
3. Press # and SEND simultaneously to print the selected user list. Paste the print below.
4. Press F4 for Line Graph Mode and highlight parameters you wish to graph.
5. Print the Line Graph for step 4 and paste it below.

Section 5

Strip Chart Mode

1. Go to the CURRENT DATA MENU and press 6 to select USER LIST.
2. Press F6 to select the STRIP CHART MODE.
3. Press # and F8 to start the strip chart.
4. Drive the vehicle while the strip chart prints making two stop and start sequences upshifting to O/D each time.
5. Press # and F9 to stop the strip chart.
6. Paste the strip chart on the back of this page.





Notes