

ENGINE

Vacuum Switching Valve (Intake Air Control System) [1AR-FE] (Inspection) - Sienna

VACUUM SWITCHING VALVE (FOR INTAKE AIR CONTROL SYSTEM)

ON-VEHICLE INSPECTION

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- 1. INSPECT VACUUM SWITCHING VALVE (for Intake Air Control System)**
 - a. Measure the resistance according to the value(s) in the table below.

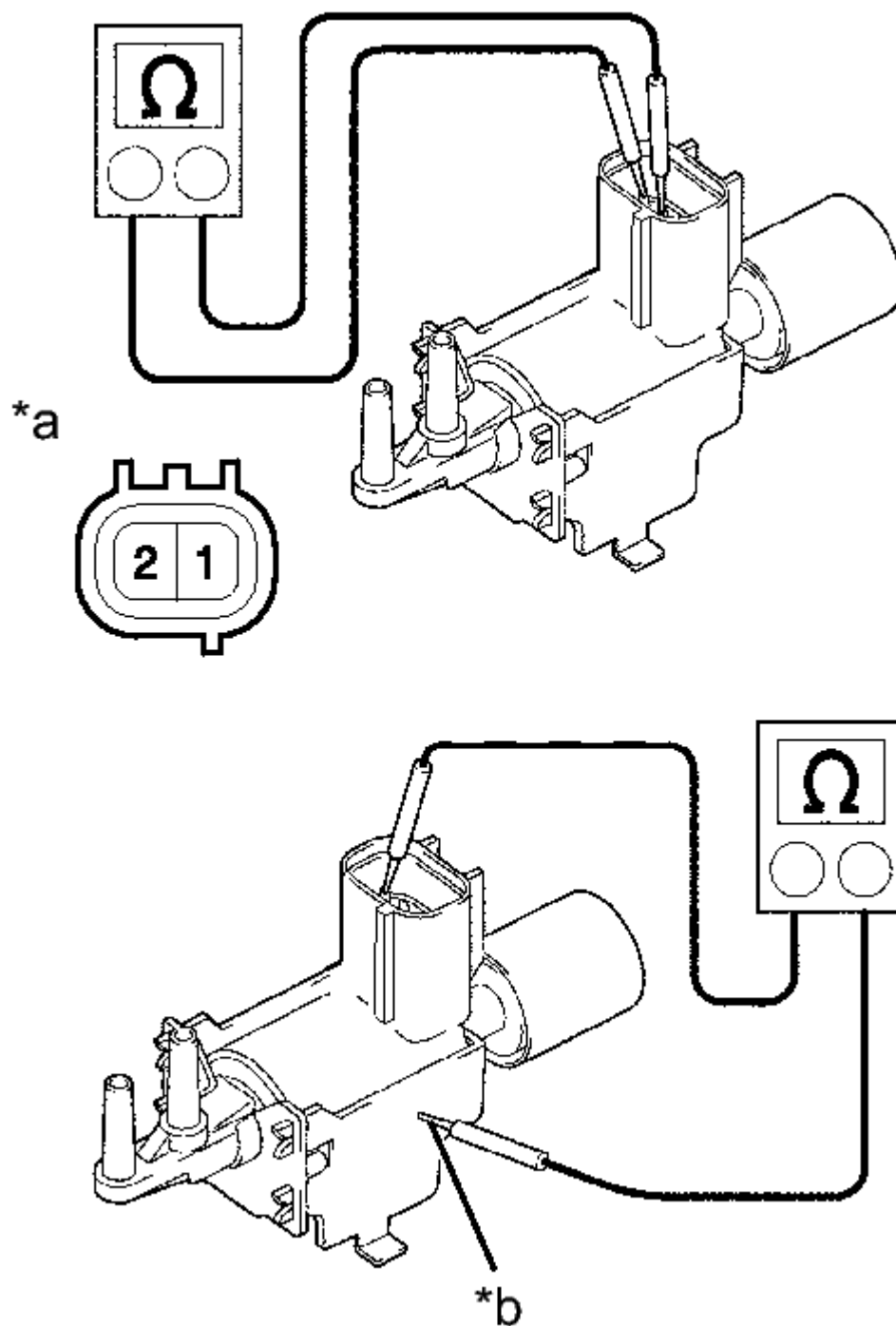


Fig. 1: Measuring Vacuum Switching Valve Resistance With Connector End View
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

Component

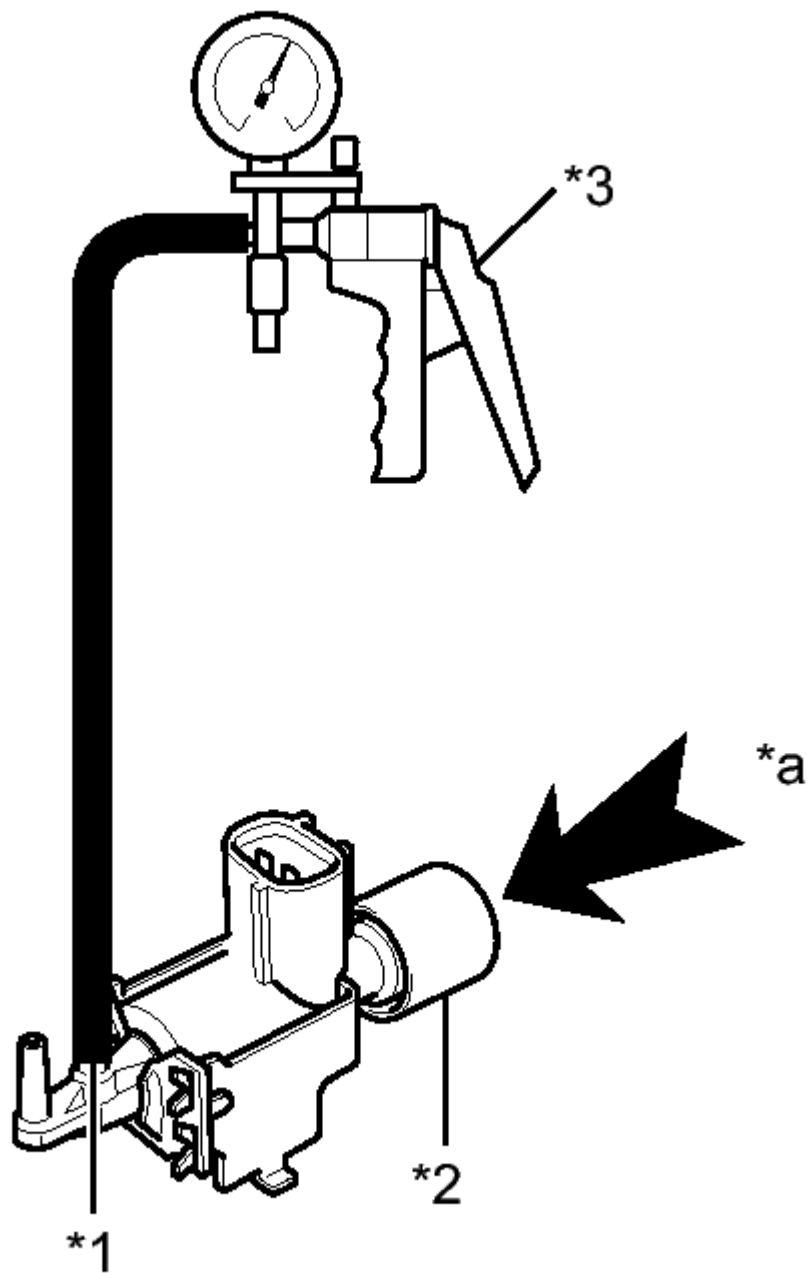
*a	without harness connected (Vacuum Switching Valve)
*b	Body Ground

Standard Resistance

Tester Connection	Condition	Specified Condition
1 - 2	20°C (68° F)	37 to 44 ohms
1 - Body ground	Always	1 Mohms or higher
2 - Body ground		

If the result is not as specified, replace the vacuum switching valve.

- b. Check the vacuum switching valve operation.
 1. Using a vacuum pump, when vacuum is applied to port E, check that air is sucked into the filter.



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Fig. 2: Checking Vacuum Switching Valve Operation
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

*1	Port E
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*2	Filter
*3	Vacuum Pump
*a	Air

If the result is not as specified, replace the vacuum switching valve.

2. Apply battery voltage across the terminals. Using a vacuum pump, when vacuum is applied to port F, check that air is sucked into port E.

*2	Port F
*3	Vacuum Pump
*a	Component without harness connected (Vacuum Switching Valve)
*b	Air

If the result is not as specified, replace the vacuum switching valve.