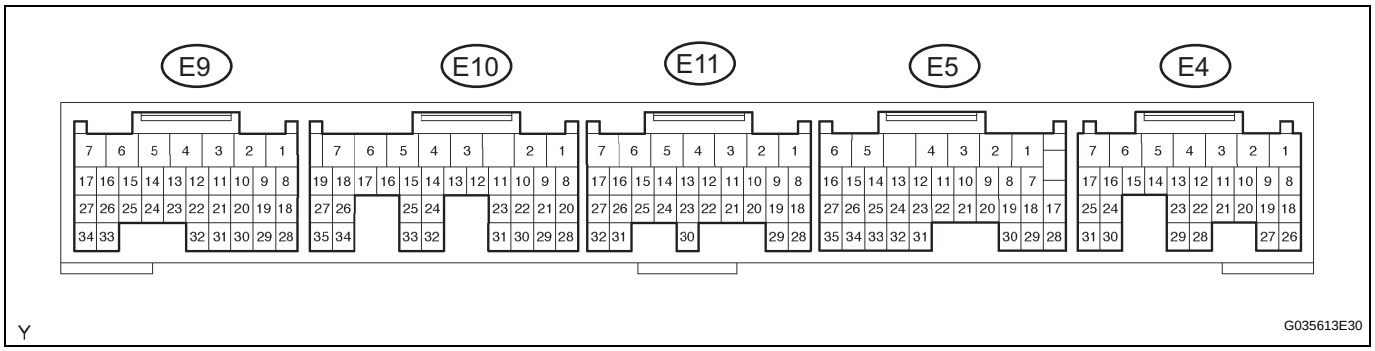
ON-VEHICLE INSPECTION

1. CHECK VVT SENSOR OUTPUT VOLTAGE



(a) Turn the ignition switch to the ON position.

(b) Check the voltage between the specified terminal and body ground.

Standard voltage

Tester Connection	Position	Specified Condition
E9-23 (VC) - Body ground	Ignition switch ON	5 V

(c) While turning the crankshaft pulley by hand, measure the voltage between each terminal. Check that the voltage changes between the High range and Low range shown in the table below.

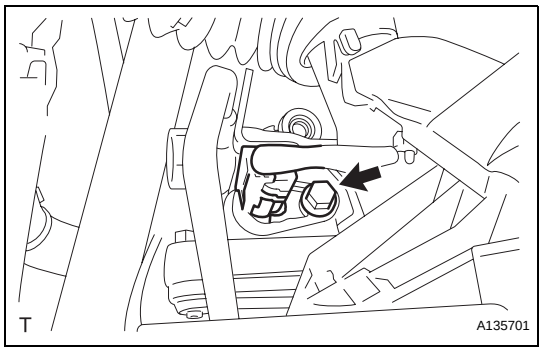
Standard voltage

Sensor Position	Terminal No.	Voltage (High)	Voltage (Low)
Bank 1 (Intake side)	VV1+ (E11-19) - VV1- (E11-29)	3.75 to 4.50 V	0.50 to 1.25 V
Bank 2 (Intake side)	VV2+ (E11-18) - VV2- (E11-28)	3.75 to 4.50 V	0.50 to 1.25 V
Bank 1 (Exhaust side)	EV1+ (E11-25) - EV1- (E11-24)	3.75 to 4.50 V	0.50 to 1.25 V
Bank 2 (Exhaust side)	EV2+ (E11-23) - EV2- (E11-22)	3.75 to 4.50 V	0.50 to 1.25 V

ES

REMOVAL

1. **REMOVE WINDSHIELD WIPER MOTOR ASSEMBLY**
   HINT:
   (See page WW-4)
2. **REMOVE FRONT OUTER COWL TOP PANEL SUB-ASSEMBLY (See page EM-27)**
3. **DRAIN ENGINE COOLANT (See page CO-6)**
4. **REMOVE V-BANK COVER SUB-ASSEMBLY (See page EM-28)**
5. **REMOVE NO. 2 AIR CLEANER INLET (See page EM-28)**
6. **REMOVE NO. 1 AIR CLEANER INLET (See page EM-28)**
7. **REMOVE AIR CLEANER CAP SUB-ASSEMBLY (See page ES-493)**
8. **REMOVE AIR CLEANER CASE SUB-ASSEMBLY (See page EM-28)**
9. **REMOVE INTAKE AIR SURGE TANK ASSEMBLY (See page ES-521)**
10. **REMOVE VVT SENSOR (for Bank 1 Intake Side)**
    (a) Disconnect the VVT sensor connector.
    (b) Remove the bolt and VVT sensor.



11. **REMOVE VVT SENSOR (for Bank 1 Exhaust Side)**
    (a) Disconnect the VVT sensor connector.
    (b) Remove the bolt and VVT sensor.

