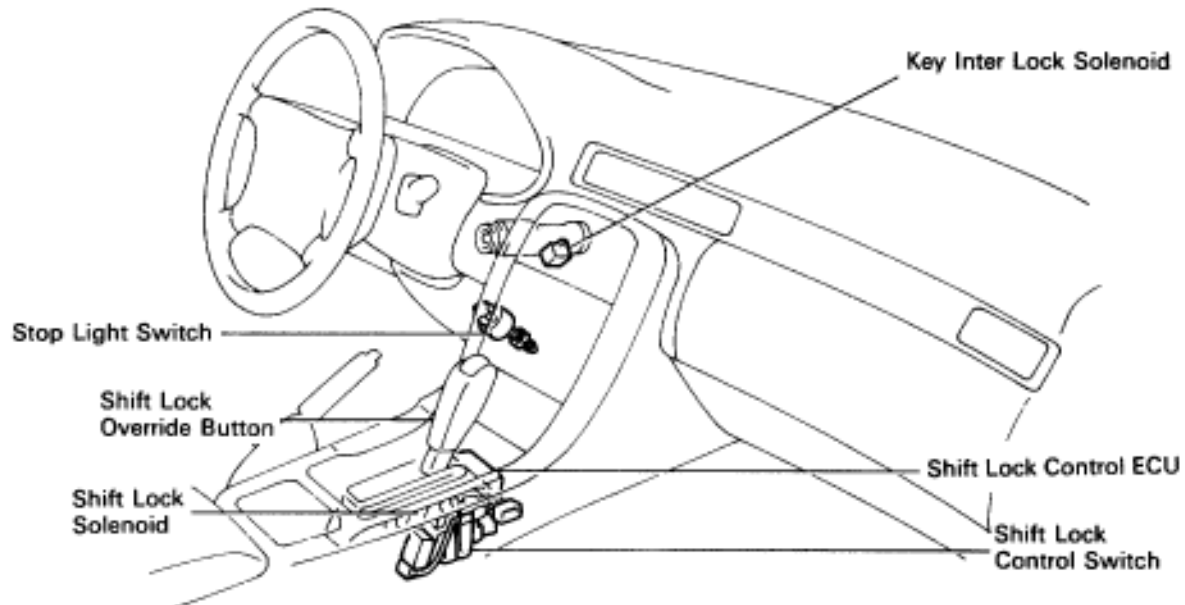
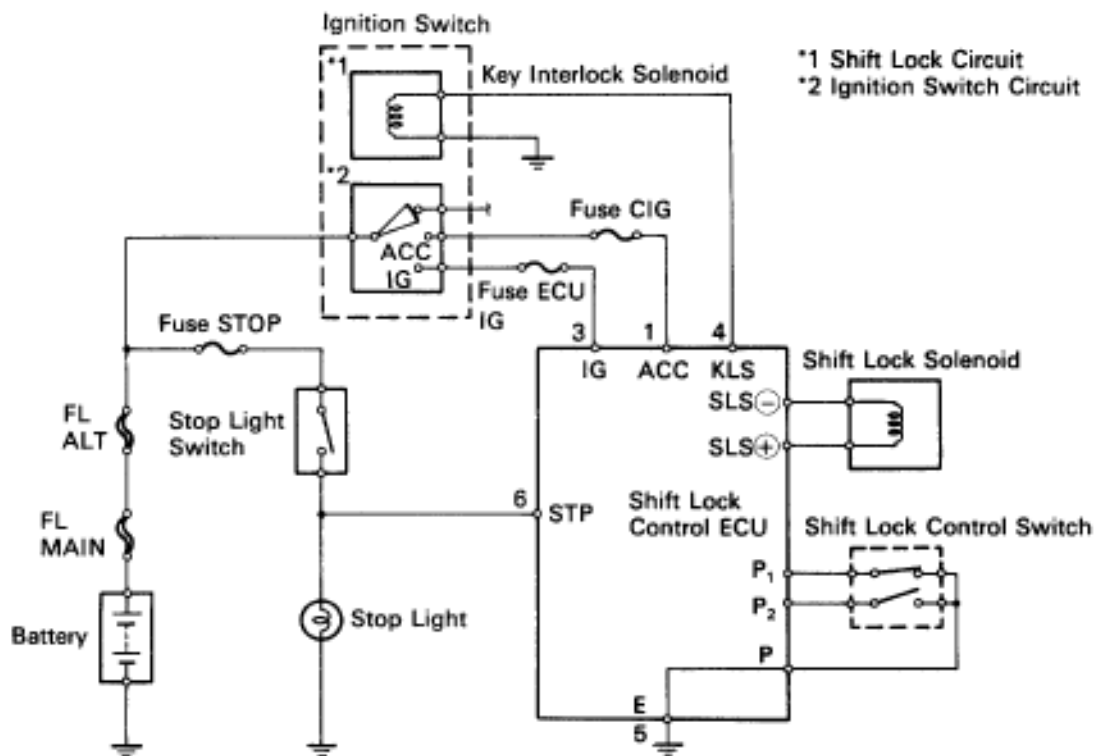


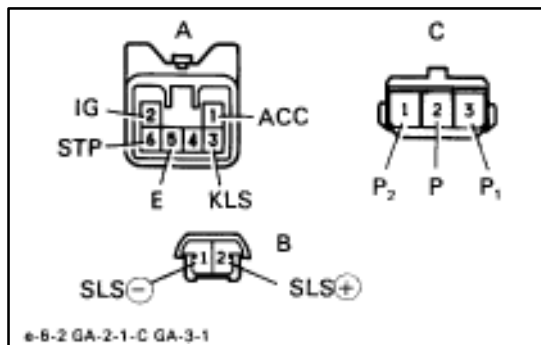
SHIFT LOCK SYSTEM COMPONENT AND CIRCUIT



AT8509



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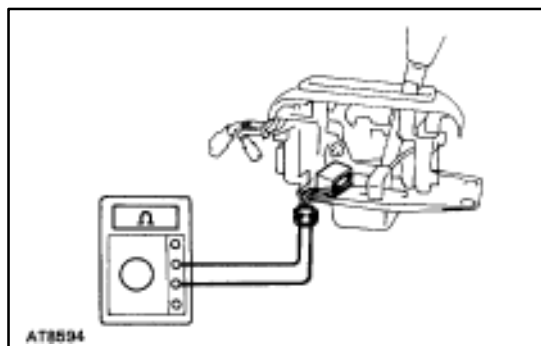


INSPECTION OF ELECTRIC CONTROL COMPONENTS

1. INSPECT SHIFT LOCK CONTROL ECU

Using a voltmeter, measure the voltage at each terminal.

Connector	Terminal	Measuring condition	Voltage (V)
A	ACC-E	IG SW ACC position	10-14
	IG-E	IG SW ON position	10-14
	STP-E	Depress brake pedal	10-14
	KLS-E	(1) IG SW ACC position and P range	0
		(2) R,N,D,2,L range	7.5-11
		(3) R,N,D,2,L range (after one seconds)	6-9.5
B	SLS-SLS-	(1) IG SW ON position and P range	0
		(2) Depress brake pedal	8-13.5
		(3) Depress brake pedal (after 20 seconds)	6-8.5
		(4) R,N,D,2,L range	0
C	P ₁ -P	(1) IG SW ON, P range and depress brake pedal	0
		(2) R,N,D,2,L range	9-13.5
	P ₂ -P	(1) IG SW ACC position and P range	9-13.5
		(2) R,N,D,2,L range	0

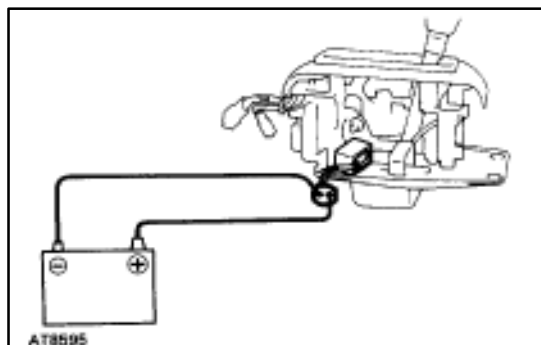


2. INSPECT SHIFT LOCK SOLENOID

- Disconnect the solenoid connector.
- Using an ohmmeter, measure the resistance between terminals.

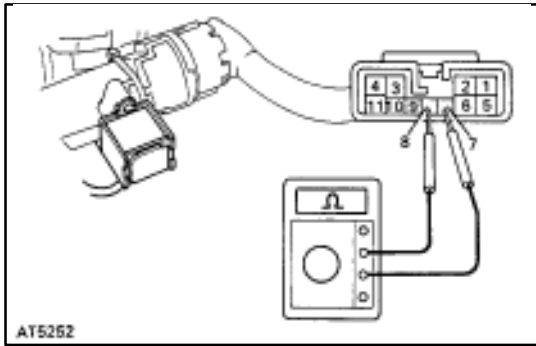
Standard resistance: 20-28 Ω

If resistance value is not as specified, replace the solenoid.



- Apply the battery voltage between terminals. At this time, confirm that the solenoid operates.

If solenoid operation is not as specified, replace the solenoid.

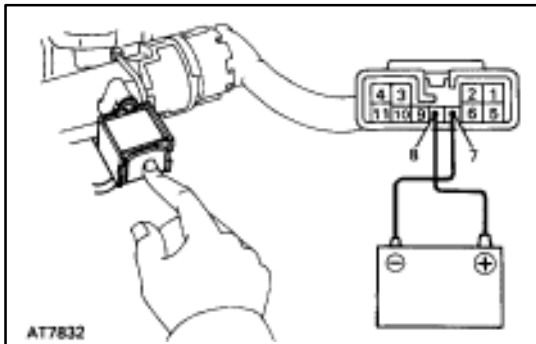


3. INSPECT KEY INTERLOCK SOLENOID

- (a) Disconnect the solenoid connector.
- (b) Using an ohmmeter, measure the resistance between terminals 7 and 8.

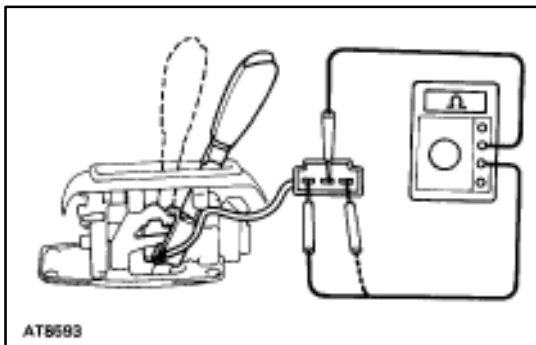
Standard resistance: 12–17 Ω

If resistance value is not as specified, replace the solenoid.



- (c) Touch the solenoid with your finger and check that solenoid operation can be felt when battery voltage is applied intermittently to the terminals 7 and 8.

If solenoid operation is not as specified, replace the solenoid.



4. INSPECT SHIFT LOCK CONTROL SWITCH

Inspect that there is continuity between each terminal.

○—○: Continuity

Terminal	P	P1	P2
Switch position			
P range (Release button is not pushed)	○—○		
R,N,D,2,L ranges	○—○	○—○	○—○

–MEMO–