When SL2 and S4 are abnormal				When SL1, SL2 and S4 are abnormal			
Solenoid			Gear	Solenoid			Gear
SL1	SL2	S4		SL1	SL2	S4	
ON ↓ OFF	×	×	3rd	×	×	×	3rd
OFF	×	×	3rd	×	×	×	3rd
OFF	×	×	3rd	×	×	×	3rd
OFF	×	×	3rd	×	×	×	3rd

■SHIFT CONTROL MECHANISM

1. General

- As in the past, the shift control mechanism of the new Camry consists of a straight shift lever that uses a shift control cable.
- The O/D (overdrive) switch has been adopted on the momentary type.
- A shift lock system consists of the key interlock device and shift lock mechanism, has been adopted.

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2. Overdrive Switch

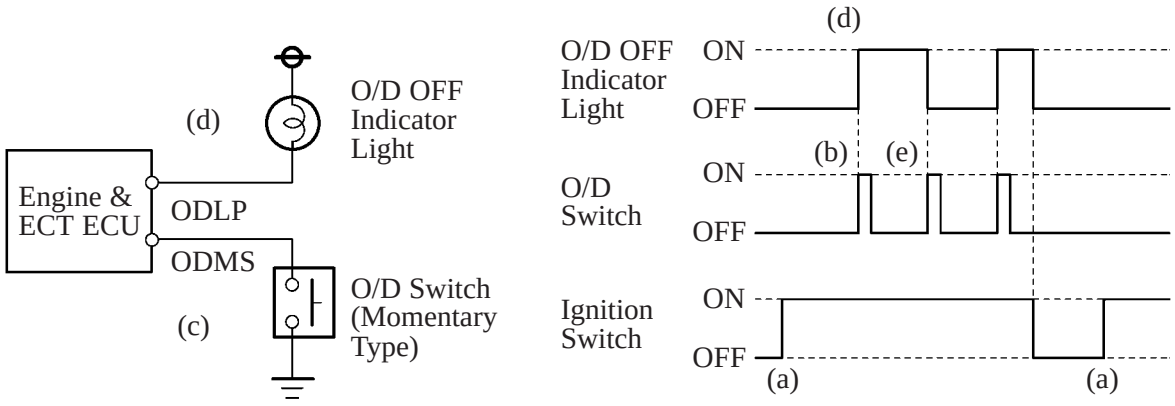
a) Turn the ignition switch from OFF to ON turns the overdrive ON.

b) Pressing the O/D switch close (turn ON) the contact points, and releasing the switch opens (turn OFF) the contact points.

c) Accordingly, pressing the switch cause the signal to be input into the engine & ECT ECU.

d) The engine & ECT ECU turns OFF the overdrive (O/D OFF indicator light turn ON).

e) Pressing the O/D switch again turns the overdrive back ON (O/D OFF indicator light turns OFF).



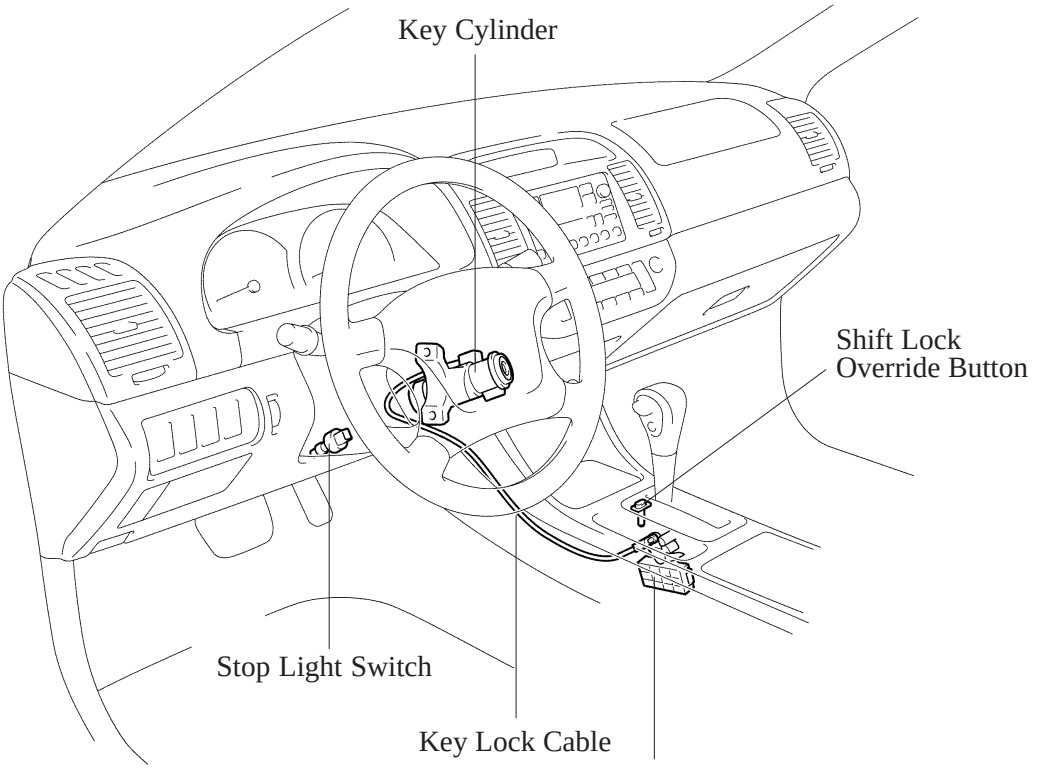
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3. Shift Lock System

General

- A shift lock system consists of the key interlock device and shift lock mechanism, that prevents the unintended operation of the shift lever has been provided.
- A mechanical key interlock device that uses the key lock cable has been adopted.
- An electrical shift lock mechanism, in which a shift lock solenoid and a shift lock ECU are integrated, has been adopted.

Layout of Component



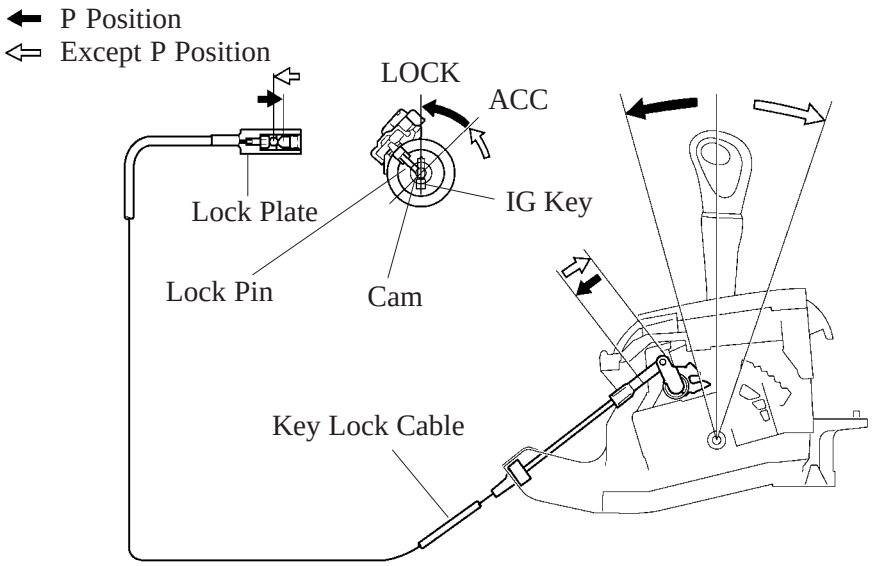
Key Interlock Device

1) General

- This device will not allow the ignition key to be turned to the LOCK position or to pull out the ignition key unless the shift lever is moved to the P position.
- This device, in which the shift lever and the key cylinder are connected via the key lock cable, mechanically limits the movement of the ignition key through the movement of the shift lever.

2) Construction and Operation

- The key cylinder contains a cam and a lock pin that move in unison with the ignition key. In addition, a key lock cable and a lock plate are placed above the lock pin.
- When the driver moves the shift lever, the lock plate slides to restrict the movement of the lock pin, which in turn, restricts the movement of the ignition key.

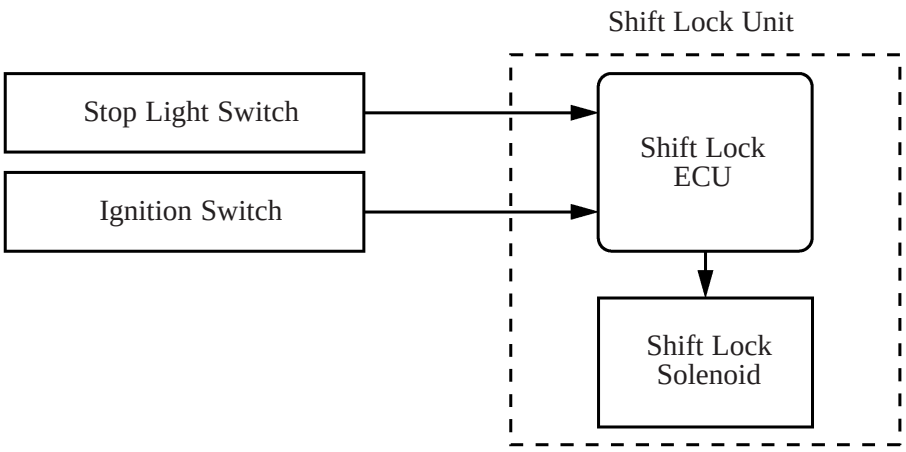


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Shift Lock Mechanism

- The shift lock mechanism prevents the shift lever from being shifted out of the “P” position to any other position unless the ignition switch is turned ON and the brake pedal is pressed.
- A shift lock override button, which manually overrides the shift lock mechanism, is provided.

▶ System Diagram ◀



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