

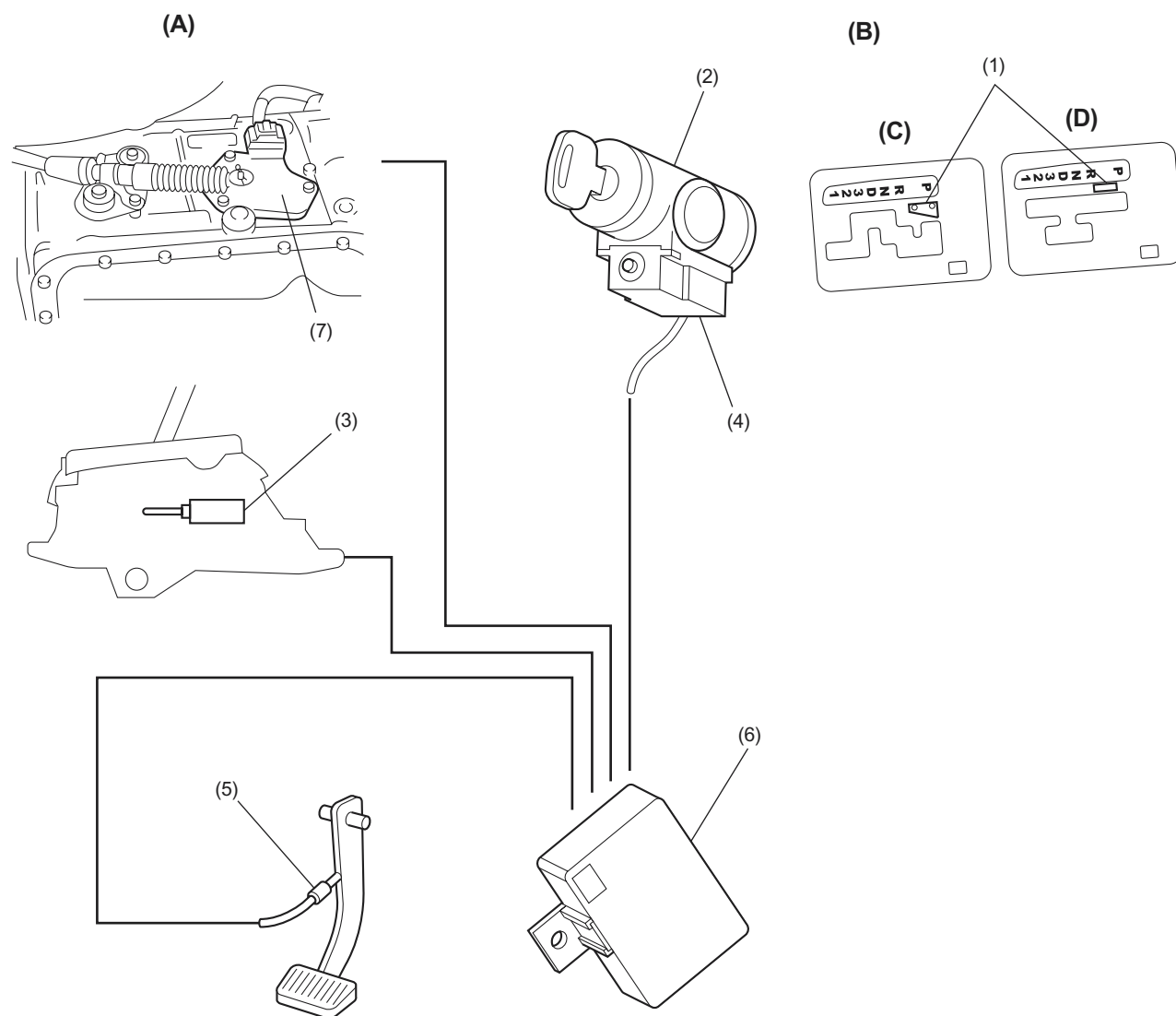
SHIFT LOCK AND KEY INTERLOCK SYSTEM

Control System

3. Shift Lock and Key Interlock System

A: GENERAL

To increase safety during standing start, the shift lock system prevents movement of the select lever from the "P" position to any other position unless the brake pedal is depressed. This system is also provided with a key interlock function which prevents removal of the ignition key from the key cylinder unless the selector lever is placed in the "P" position.



CS-00160

(A) Shift lock system

(B) Except vehicles with sports shift

(1) "P" position switch

(2) Key cylinder

(3) Shift lock solenoid

(4) Key lock solenoid

(B) Key interlock system

(D) Vehicles with sports shift

(5) Brake pedal switch

(6) Integrated module

(7) Inhibitor switch

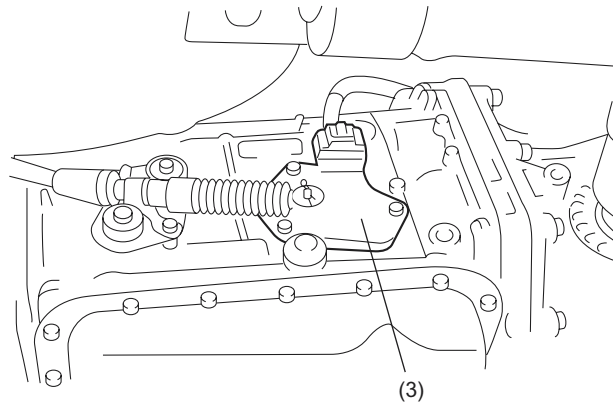
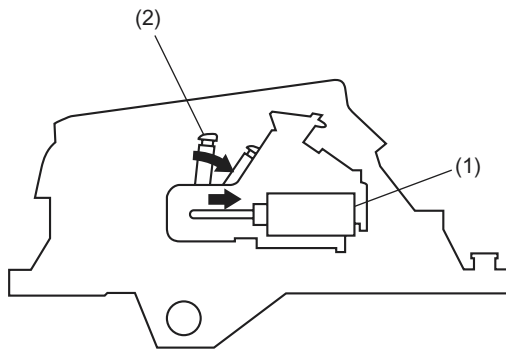
SHIFT LOCK AND KEY INTERLOCK SYSTEM

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B: SHIFT LOCK SYSTEM OPERATION

1. EXCEPT VEHICLES WITH SPORTS SHIFT

The shift lock system has a solenoid-operated plunger (1). With the select lever in the “P” position, the plunger remains extended, holding the lock arm (2) in its raised (locking) position. When the brake pedal is depressed with the ignition switch in either the ON or START position, the solenoid is energized and the plunger is retracted. This causes the lock arm to tilt forward to the select lever release position. The select lever now can be moved to any other position. The “P” position of the select lever is detected by the inhibitor switch (3).



CS-00161

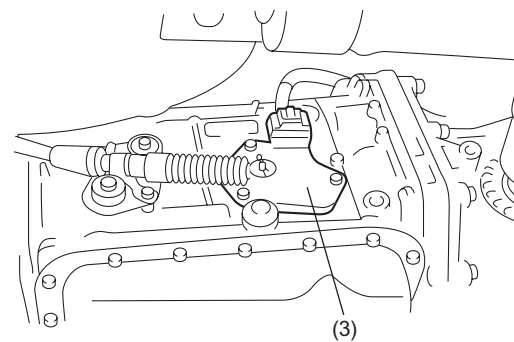
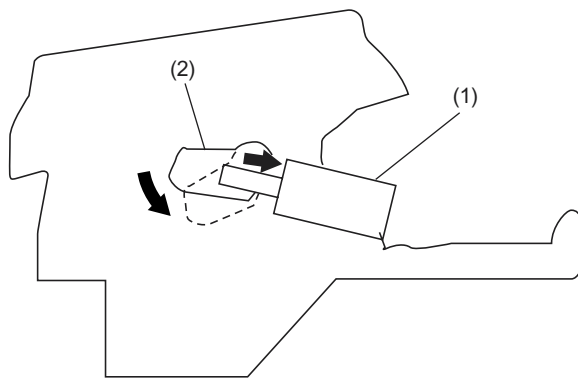
- (1) Solenoid
- (2) Lock arm
- (3) Inhibitor switch

SHIFT LOCK AND KEY INTERLOCK SYSTEM

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2. VEHICLES WITH SPORTS SHIFT

The shift lock system has a solenoid-operated plunger (1). With the select lever in the “P” position, the plunger remains extended, holding the plate (2) in its raised (locking) position. When the brake pedal is depressed with the ignition switch in either the ON or START position, the solenoid is energized and the plunger is retracted. This causes the plate to tilt downward to the select lever release position. The select lever now can be moved to any other position. The “P” position of the select lever is detected by the inhibitor switch (3).



CS-00077

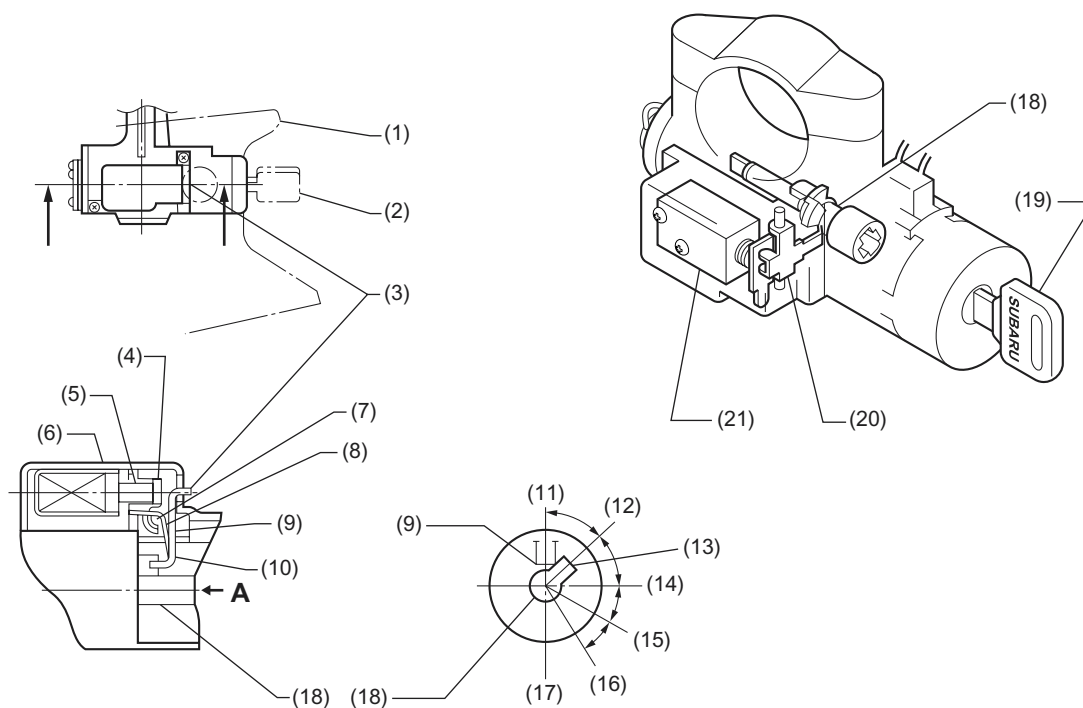
- (1) Solenoid
- (2) Plate
- (3) Inhibitor switch

SHIFT LOCK AND KEY INTERLOCK SYSTEM

Control System

C: KEY INTERLOCK FUNCTION

- When the select lever is at any position other than "P", the solenoid is energized and its pin is held extended. Being caused to stay in its upright position by extension of the pin, the interlock lever interferes with the stopper portion of the rotator which turns together with the ignition key. Thus, the ignition key cannot be rotated to the "LOCK" position.



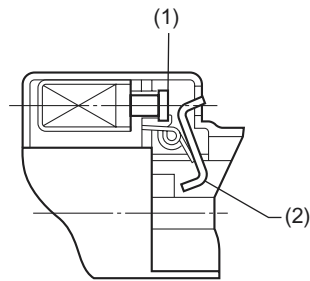
CS-00078

- | | |
|--------------------------|-------------------------|
| (1) Column cover | (12) Interlock position |
| (2) Key | (13) Stopper |
| (3) Push button | (14) ACC |
| (4) Extended | (15) ON |
| (5) Solenoid pin | (16) START |
| (6) Solenoid unit | (17) View A |
| (7) Lever fulcrum | (18) Rotator |
| (8) Lever spring | (19) Key |
| (9) Interlock lever | (20) Interlock lever |
| (10) Interlock activated | (21) Solenoid |
| (11) Lock | |

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Control System

- When the select lever is moved to “P”, the inhibitor switch in the select lever assembly operates, deenergizing the solenoid. As the push force of the solenoid pin is removed, the lever spring causes the interlock lever to tilt and become clear of the rotator's stopper. Then the key can be rotated to the “LOCK” position and removed from the ignition switch.



CS-00079

- (1) Retracted
- (2) Interlock deactivated

SHIFT LOCK AND KEY INTERLOCK SYSTEM

Control System

MEMO