

INSPECTION

1. INSPECT PARK/NEUTRAL POSITION SWITCH

ASSEMBLY OPERATION

- (a) Apply the parking brake and turn the ignition switch to the ON position.
- (b) Depress the brake pedal and check that the engine starts only when the shift lever is in the N or P position and the engine does not start when the shift lever is in other positions.
- (c) Check that the back up light comes on and the reverse warning buzzer sounds only when the shift lever is in the R position and the light and buzzer do not operate when the shift lever is in other positions.
- (d) If a failure is found, check the park/neutral position switch for continuity.

2. INSPECT PARK/NEUTRAL POSITION SWITCH

ASSEMBLY

- (a) Jack up the vehicle.
- (b) Disconnect the park/neutral position switch connector.
- (c) Gate shift lever type:
Measure the resistance according to the value(s) in the table below when the shift lever is moved to each position.

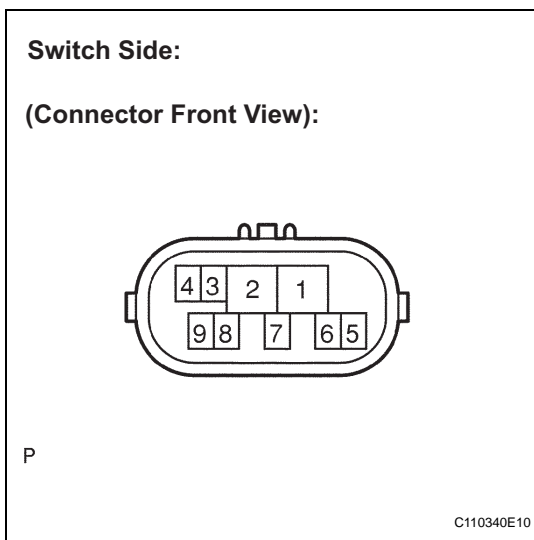
Resistance

| Shift Position | Tester Connection | Specified Condition |
|----------------|-------------------|---------------------|
| P | 2 - 6 and 4 - 5 | Below 1 Ω |
| Except P | | 10 kΩ or higher |
| R | 2 - 1 | Below 1 Ω |
| Except R | | 10 kΩ or higher |
| N | 2 - 9 and 4 - 5 | Below 1 Ω |
| Except N | | 10 kΩ or higher |
| D and 4 | 2 - 7 | Below 1 Ω |
| Except D and 4 | | 10 kΩ or higher |
| 3 | 2 - 3 | Below 1 Ω |
| Except 3 | | 10 kΩ or higher |
| 2 and L | 2 - 8 | Below 1 Ω |
| Except 2 and L | | 10 kΩ or higher |

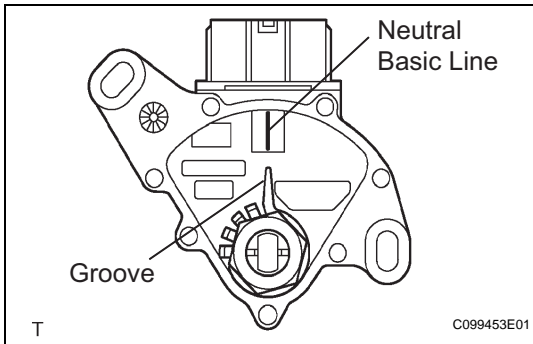
- (d) Shift lever with Multi-mode automatic transmission type:
Measure the resistance according to the value(s) in the table below when the shift lever is moved to each position.

Resistance

| Shift Position | Tester Connection | Specified Condition |
|----------------|-------------------|---------------------|
| P | 2 - 6 and 4 - 5 | Below 1 Ω |
| Except P | | 10 kΩ or higher |
| R | 2 - 1 | Below 1 Ω |
| Except R | | 10 kΩ or higher |
| N | 2 - 9 and 4 - 5 | Below 1 Ω |
| Except N | | 10 kΩ or higher |



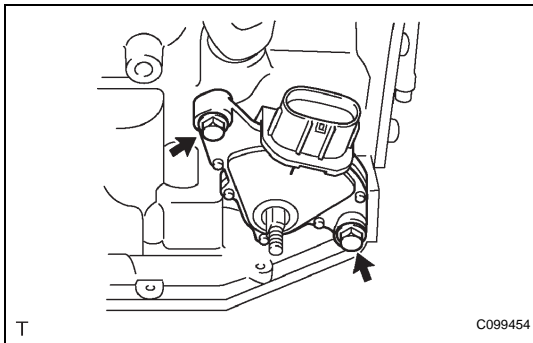
| Shift Position | Tester Connection | Specified Condition |
|--------------------------|-------------------|---------------------|
| D, S, "+" and "-" | 2 - 7 | Below 1 Ω |
| Except D, S, "+" and "-" | | 10 kΩ or higher |



ADJUSTMENT

1. ADJUST PARK/NEUTRAL POSITION SWITCH ASSEMBLY

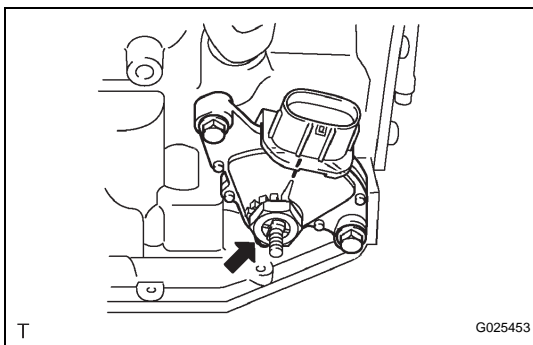
- Loosen the 2 bolts of the park/neutral position switch and move the shift lever to the N position.
- Align the groove with the neutral basic line.
- Hold the switch in position and tighten the 2 bolts.
Torque: 5.4 N*m (55 kgf*cm, 48 in.*lbf)
- After adjustment, perform the inspection described in park/neutral position switch assembly operation.



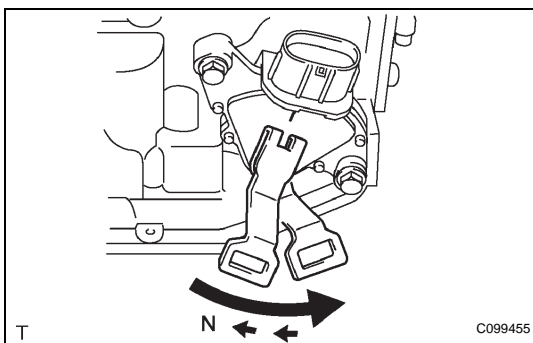
INSTALLATION

1. INSTALL PARK/NEUTRAL POSITION SWITCH ASSEMBLY

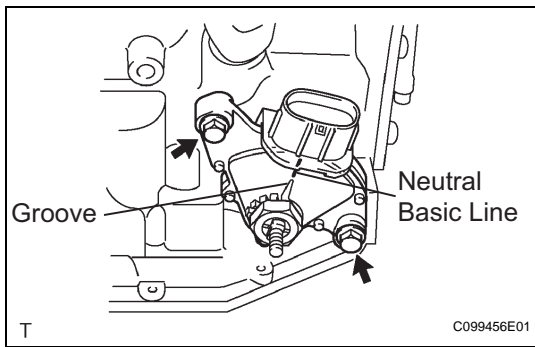
- Install the park/neutral position switch to the manual valve shaft.
- Temporarily install the 2 bolts.



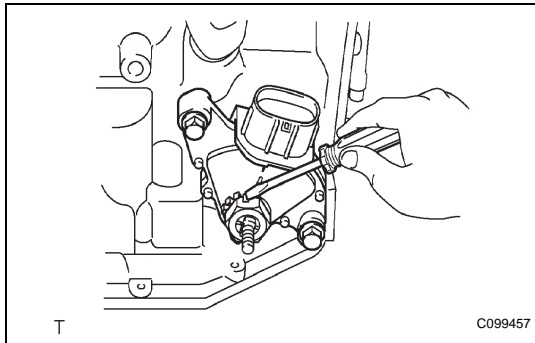
- Place a new lock plate and tighten the nut.
Torque: 6.9 N*m (70 kgf*cm, 61 in.*lbf)
- Temporarily install the control shaft lever.



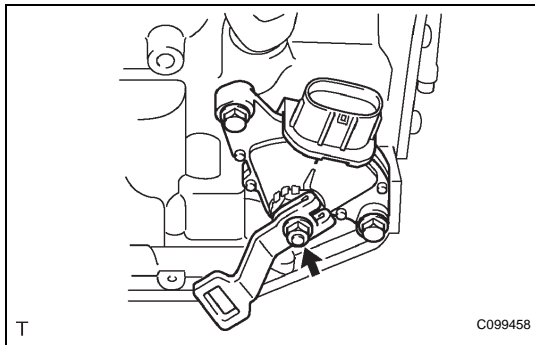
- Turn the lever counterclockwise until it stops, then turn it clockwise 2 notches.
- Remove the control shaft lever.



- (g) Align the groove with the neutral basic line.
- (h) Hold the switch in position and tighten the 2 bolts.
Torque: 5.4 N*m (55 kgf*cm, 48 in.*lbf)

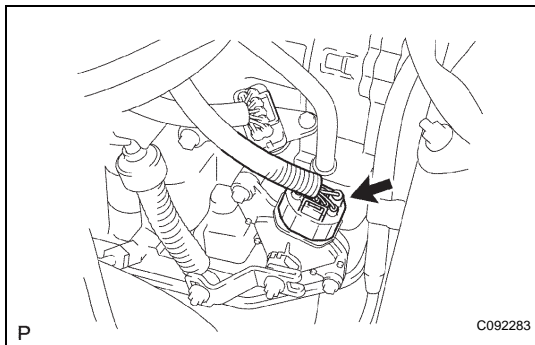


- (i) Using a screwdriver, bend the tabs of the lock plate.

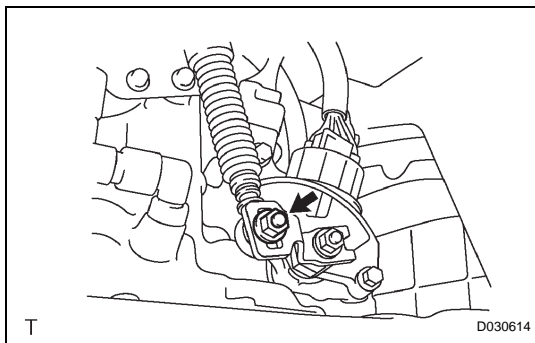


- (j) Install the control shaft lever, washer and the nut.
Torque: 13 N*m (130 kgf*cm, 9 ft.*lbf)

AX

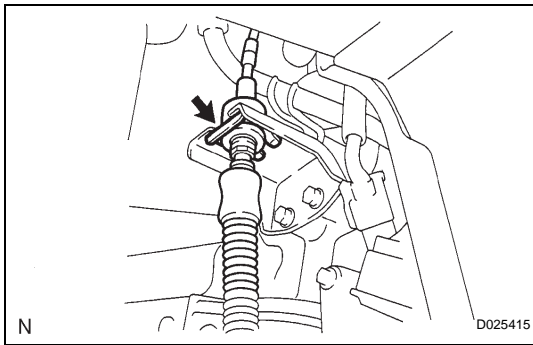


- (k) Connect the park/neutral position switch connector.



2. CONNECT TRANSMISSION CONTROL CABLE ASSEMBLY

- (a) Connect the control cable to the control shaft lever with the nut.
Torque: 13 N*m (133 kgf*cm, 10 ft.*lbf)



(b) Install the control cable with a new clip to the bracket.

3. **ADJUST PARK/NEUTRAL POSITION SWITCH ASSEMBLY** (See page [AX-139](#))
4. **INSPECT PARK/NEUTRAL POSITION SWITCH ASSEMBLY OPERATION** (See page [AX-137](#))
5. **INSPECT SHIFT LEVER POSITION** (See page [AX-162](#))
6. **ADJUST SHIFT LEVER POSITION** (See page [AX-162](#))
7. **INSTALL INTAKE AIR RESONATOR SUB-ASSEMBLY**
HINT:
(See page [ST-12](#))
8. **INSTALL AIR CLEANER INLET NO.1**
HINT:
(See page [ST-12](#))
9. **INSTALL AIR CLEANER BRACKET**
HINT:
(See page [ST-12](#))
10. **INSTALL AIR CLEANER HOSE NO.2**
HINT:
(See page [ST-12](#))
11. **INSTALL AIR CLEANER HOSE NO.1**
HINT:
(See page [ST-12](#))
12. **INSTALL AIR CLEANER ASSEMBLY**
HINT:
(See page [ST-12](#))
13. **INSTALL BATTERY**
14. **PERFORM INITIALIZATION**
HINT:
Some systems need initialization when disconnecting the cable from the negative battery terminal (See page [AX-1](#)).