

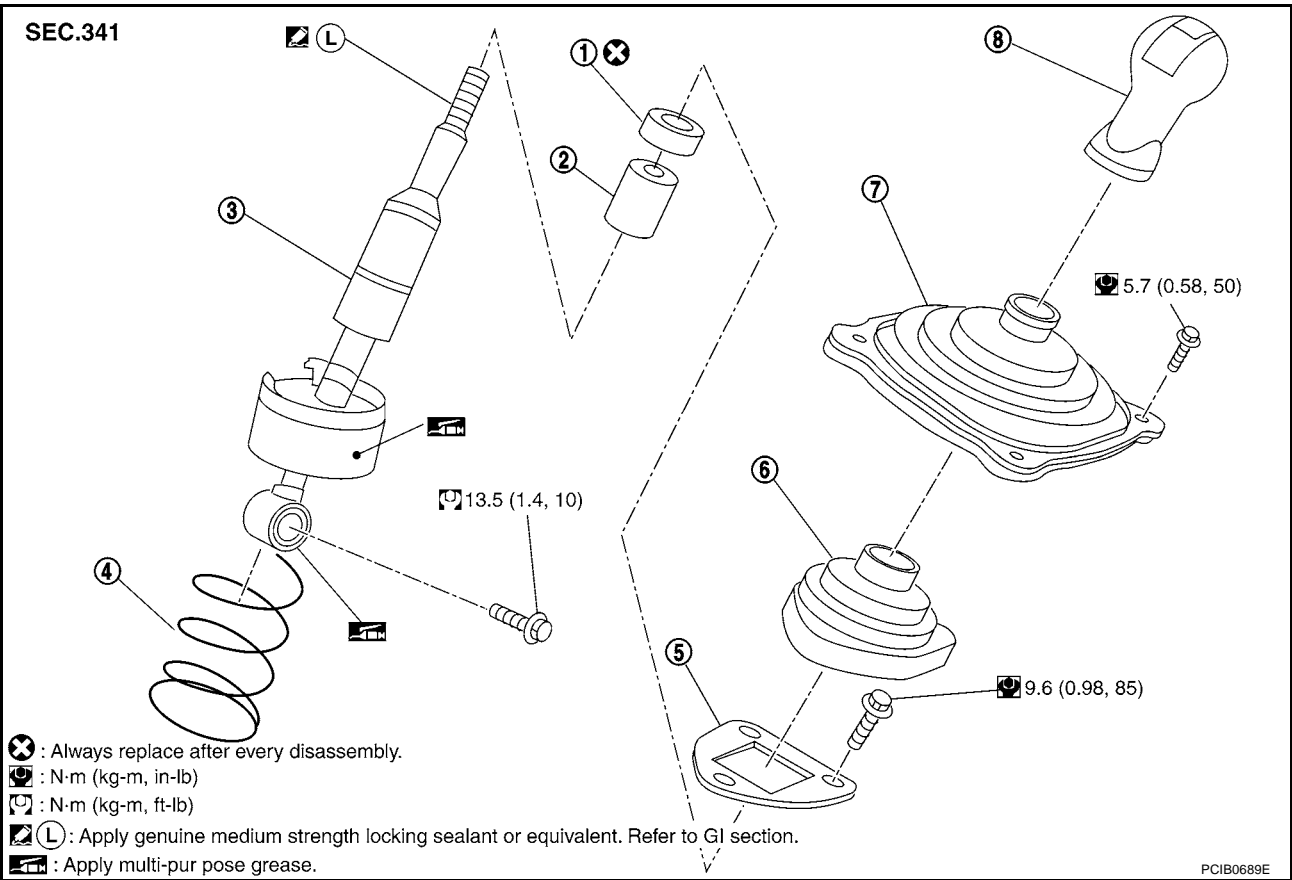
SHIFT CONTROL

SHIFT CONTROL

PFP:34103

Removal and Installation

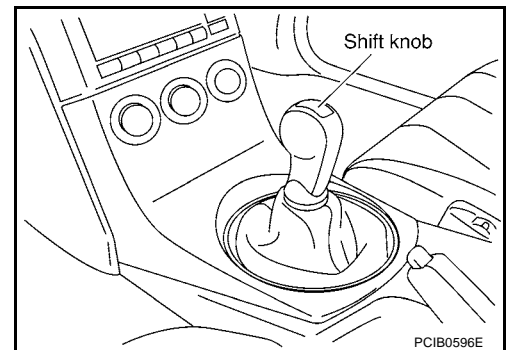
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- | | | |
|-------------------------|----------------|-----------------------|
| 1. Insulator | 2. Seat | 3. Control lever |
| 4. Control lever spring | 5. Guide plate | 6. Control lever boot |
| 7. Hole cover | | |

REMOVAL

1. Remove the shift knob with the following procedure.
 - a. Disconnect console boot from center console. Refer to [IP-11, "Removal and Installation"](#).



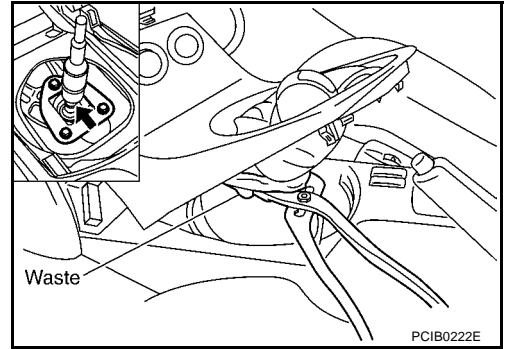
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SHIFT CONTROL

- b. Lift console boot, and push down hole cover. Set water pump plier and others to control lever assembly.

CAUTION:

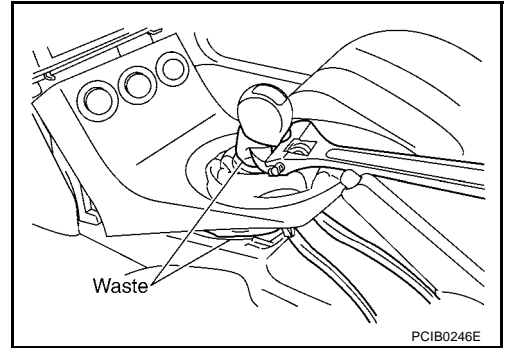
Put waste cloth between water pump plier and control lever assembly to avoid damaging control lever assembly.



- c. Set monkey wrench to shift knob.

CAUTION:

Put waste cloth between shift knob and suitable plier to avoid damaging shift knob.

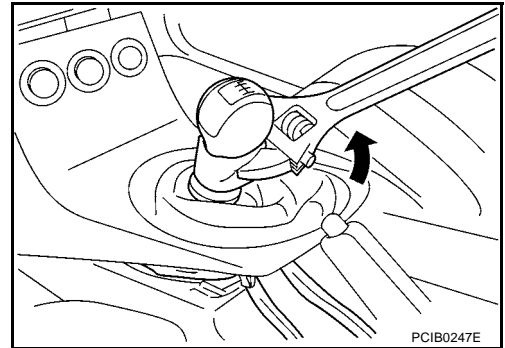


- d. Turn monkey wrench with water pump plier and others fixed. Loosen shift knob, and remove shift knob from control lever assembly.

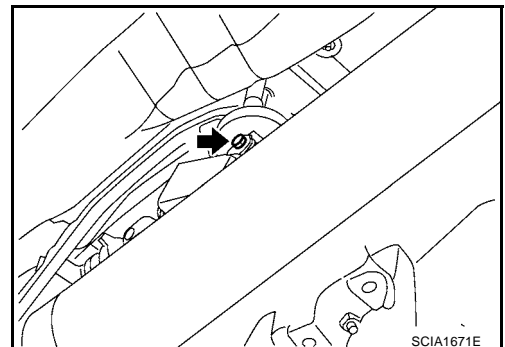
NOTE:

Remove shift knob from control assembly with water pump plier and others fixed. Because a certain power to turn shift knob is necessary even after adhesive is peeled.

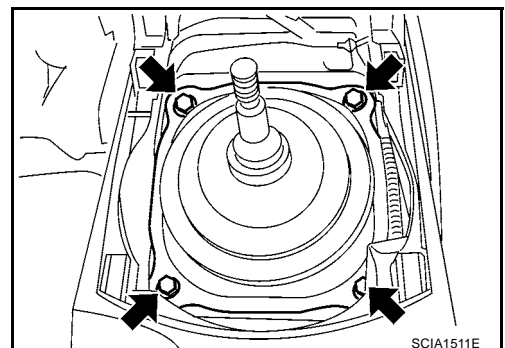
2. Loosen the shift knob to remove the control lever.
3. Remove console boot. Refer to [IP-11. "Removal and Installation"](#).



4. Push back the boot, remove control lever assembly mounting bolt, and separate control lever and control rod assembly.

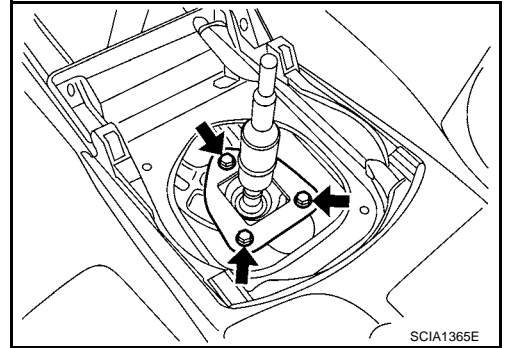


5. Remove the mounting bolts to remove the hole cover.
6. Remove the control lever boot.



SHIFT CONTROL

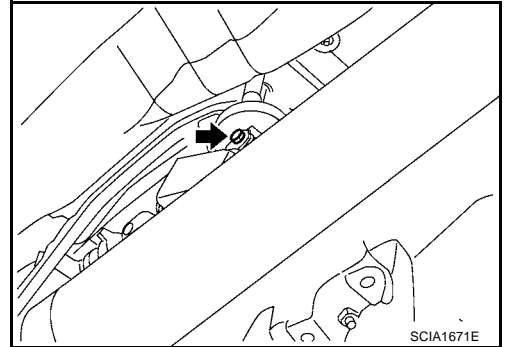
7. Remove guide plate mounting bolts, and then remove control lever assembly and control lever spring.



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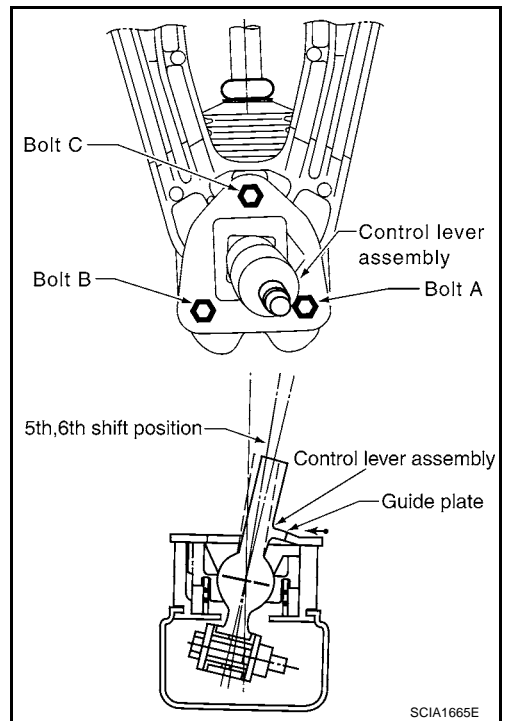
INSTALLATION

1. Set control lever assembly and control lever spring in the control lever housing assembly and loosely mount the guide plate.
2. After installing control lever assembly in the control rod assembly, tighten bolts to the specified torque. Refer to [MT-13, "Removal and Installation"](#).



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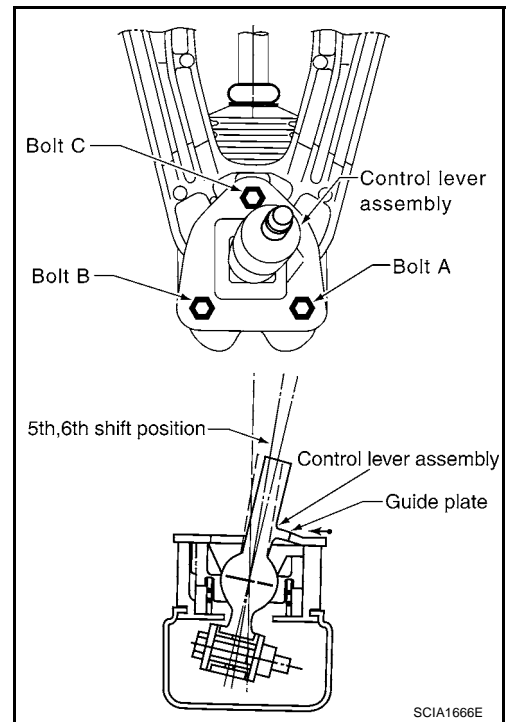
3. Shifting control lever assembly to 6th gear, the control lever assembly is light pressed to the reverse side.
4. At the point where the control lever assembly stops, bring the guide plate closer until guide plate stopper contacts control lever assembly claw, and then loosely tighten mounting bolt A.



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SHIFT CONTROL

5. Shifting control lever assembly to 5th gear, the control lever assembly light pressed to the reverse side.
6. At the point where control lever assembly stops, bring guide plate closer until the guide plate stopper contacts control lever assembly claw, and then loosely tighten mounting bolt C. Refer to [MT-13, "Removal and Installation"](#).
7. Tighten guide plate bolts A and B to the specified torque. Refer to [MT-13, "Removal and Installation"](#).
8. Install control lever boot.
9. Install hole cover and tighten bolt to the specified torque. Refer to [MT-13, "Removal and Installation"](#).
10. Install console boot. Refer to [IP-11, "Removal and Installation"](#).



11. As shown in the figure, assemble seat and insulator to control lever assembly.

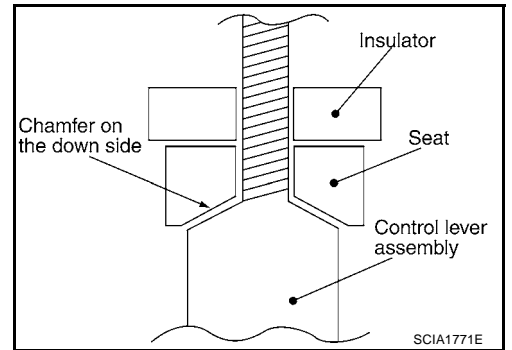
CAUTION:

Do not reuse the insulator.

12. Apply locking sealant to control lever threads, install shift knob.

CAUTION:

Remove the remaining adhesive on control lever and shift knob threads.



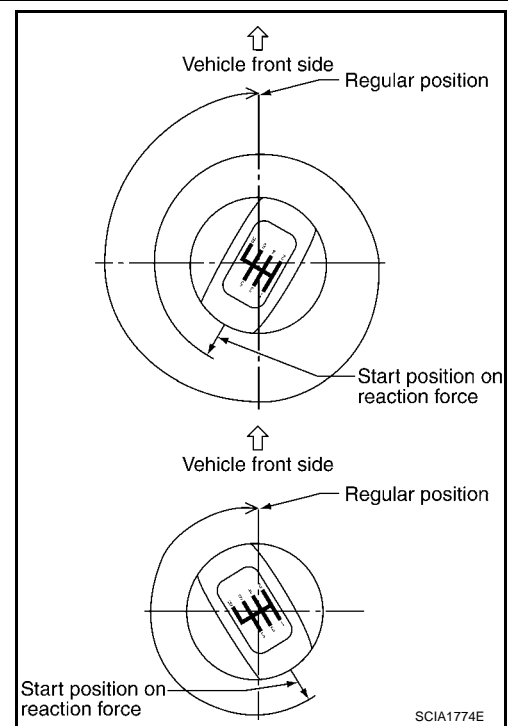
13. Put the shift knob in the correct position as the following indicates.

SHIFT CONTROL

- When tightening shift knob, if shift knob position is the correct position a less than 1/2 rotation from starting resistance, tighten 1 more rotation and set the correct position again.
- If shift knob position is the correct position more than 1/2 rotation from starting resistance, tighten and set the correct position.

CAUTION:

- Do not adjust the knob with loosing.
- After adjusting to regular position, until 30 minute passes since a locking sealant because stiff. Do not operate the shift intensely such as screwing or turning the shift knob to opposite direction.



INSPECTION AFTER INSTALLATION

After installing, confirm the following items:

- When control lever assembly is shifted to each position, make sure there is no binding or disconnection in each boot.
- When shifted to each position, make sure there is no noise, bending, and backlash. Especially when control lever assembly is shifted to 5th, 6th without pressing downward, check for bending.
- When control lever assembly is shifted to 1st, 2nd side and 5th, 6th side, confirm control lever assembly returns to neutral position smoothly.
- In any position other than reverse, confirm that control lever assembly can be pressed downward.
- With control lever assembly pressed downward, confirm that it can be shifted to reverse.
- When shifted from reverse to neutral position, confirm control lever assembly returns to neutral position smoothly with spring power.
- Without control lever assembly pressed downward, confirm that it cannot be shifted to reverse.