

# 05-18 AUTOMATIC TRANSAXLE SHIFT MECHANISM

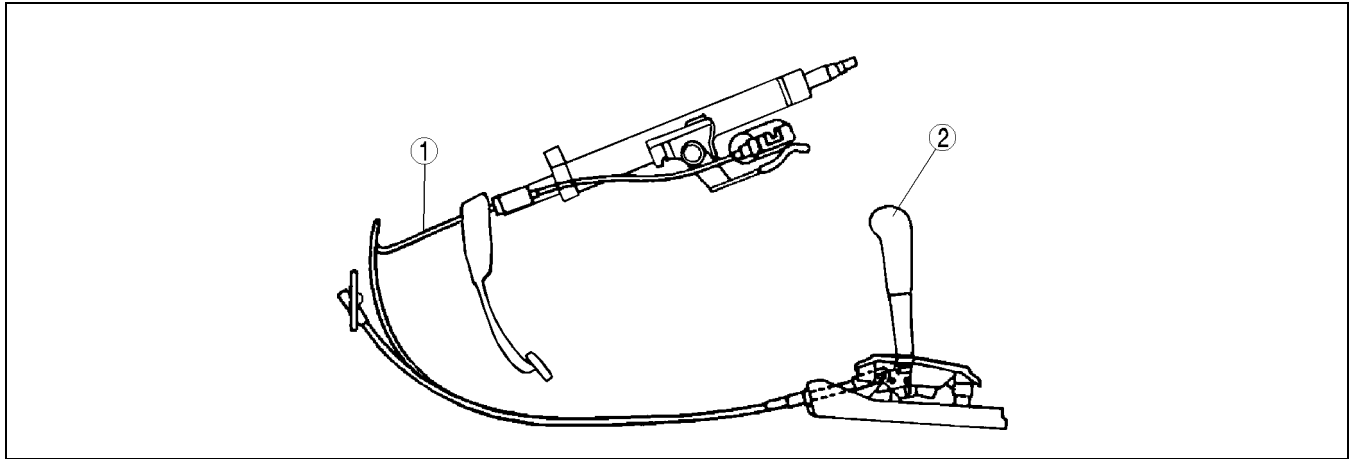
**AUTOMATIC TRANSMISSION SHIFT**

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**AUTOMATIC TRANSMISSION SHIFT MECHANISM LOCATION INDEX**

A3U051864350W01



Z3U518W01

**05-18**

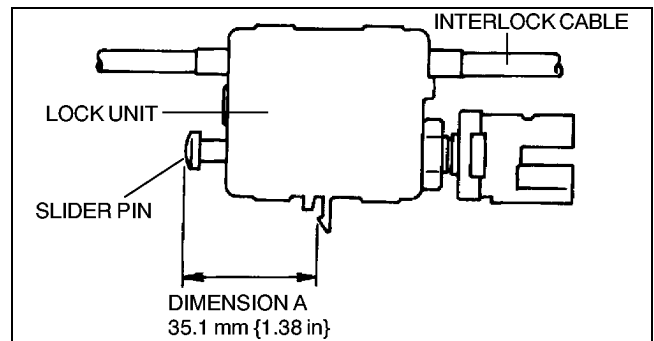
1	Interlock cable (See 05-18-1 INTERLOCK CABLE INSPECTION)
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2	Selector lever (See 05-18-3 SELECTOR LEVER REMOVAL/INSTALLATION) (See 05-18-2 SELECTOR LEVER INSPECTION) (See 05-18-2 SELECTOR LEVER ADJUSTMENT) (See 05-18-8 SELECTOR LEVER DISASSEMBLY/ASSEMBLY)
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**INTERLOCK CABLE INSPECTION**

A3U051846300W01

1. Remove the interlock cable and lock unit. (See 05-18-3 SELECTOR LEVER REMOVAL/INSTALLATION.)
  - If the slider pin protrusion is as specified below (dimension A), verify that the interlock cable moves freely in the lock unit.
  - If not as specified, replace the interlock cable.
2. Install the interlock cable and lock unit. (See 05-18-4 Interlock Cable and Lock Unit Installation Note.)



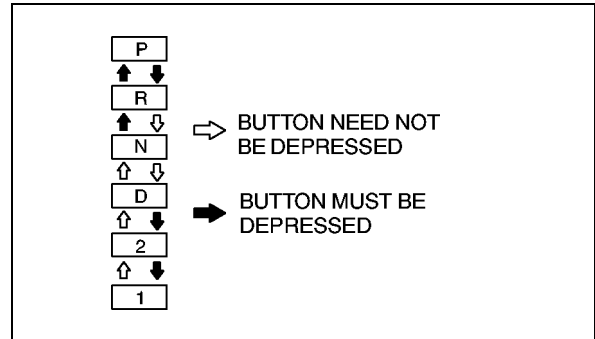
X3U518WA0

# AUTOMATIC TRANSAXLE SHIFT MECHANISM

## SELECTOR LEVER INSPECTION

A3U051846102W01

1. Turn the ignition switch to the ON position (engine off).
2. With the brake pedal depressed, verify that a "click" sound is heard at each range when shifted in the pattern shown.
3. Verify that the selector lever can only be shifted as shown.
4. Verify that a "click" sound is heard at each position when shifted from P position to 1 range.
5. Verify that the positions of the selector lever and the indicator are aligned.
6. Verify that the position of the selector lever and the selector illumination light correspond.
  - If not as specified, adjust the TR switch. (See 05-17-23 TRANSAXLE RANGE (TR) SWITCH ADJUSTMENT.)
7. Verify that the vehicle operates in each selected range.

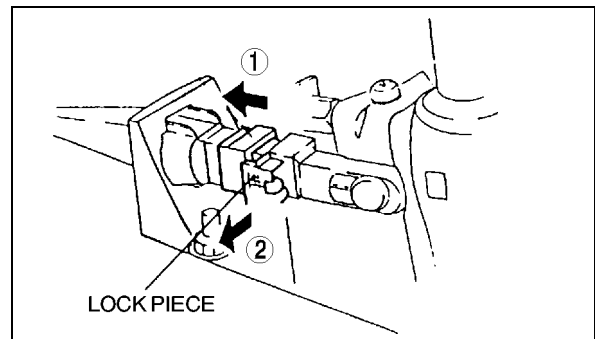


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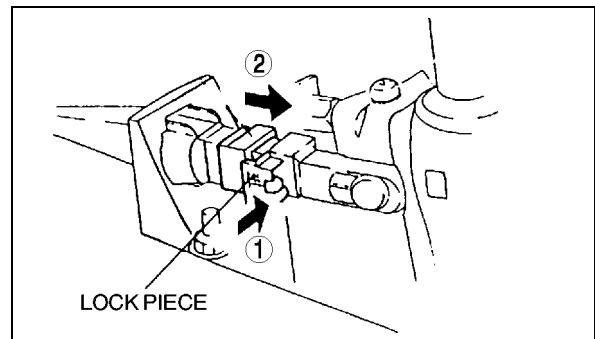
## SELECTOR LEVER ADJUSTMENT

A3U051846102W02

1. Remove the center console.
2. Shift the selector lever to the P position.
3. Unlock the lock piece of the selector cable (selector lever side) in the order shown in the figure.
4. Verify that the manual shaft is at the P position.
5. Lock the lock piece of the selector cable (selector lever side) in the order shown in the figure.
6. Install the center console.
7. Shift the selector lever from P position to 1 range, and make sure that there are no other components in that area to interfere with the lever.



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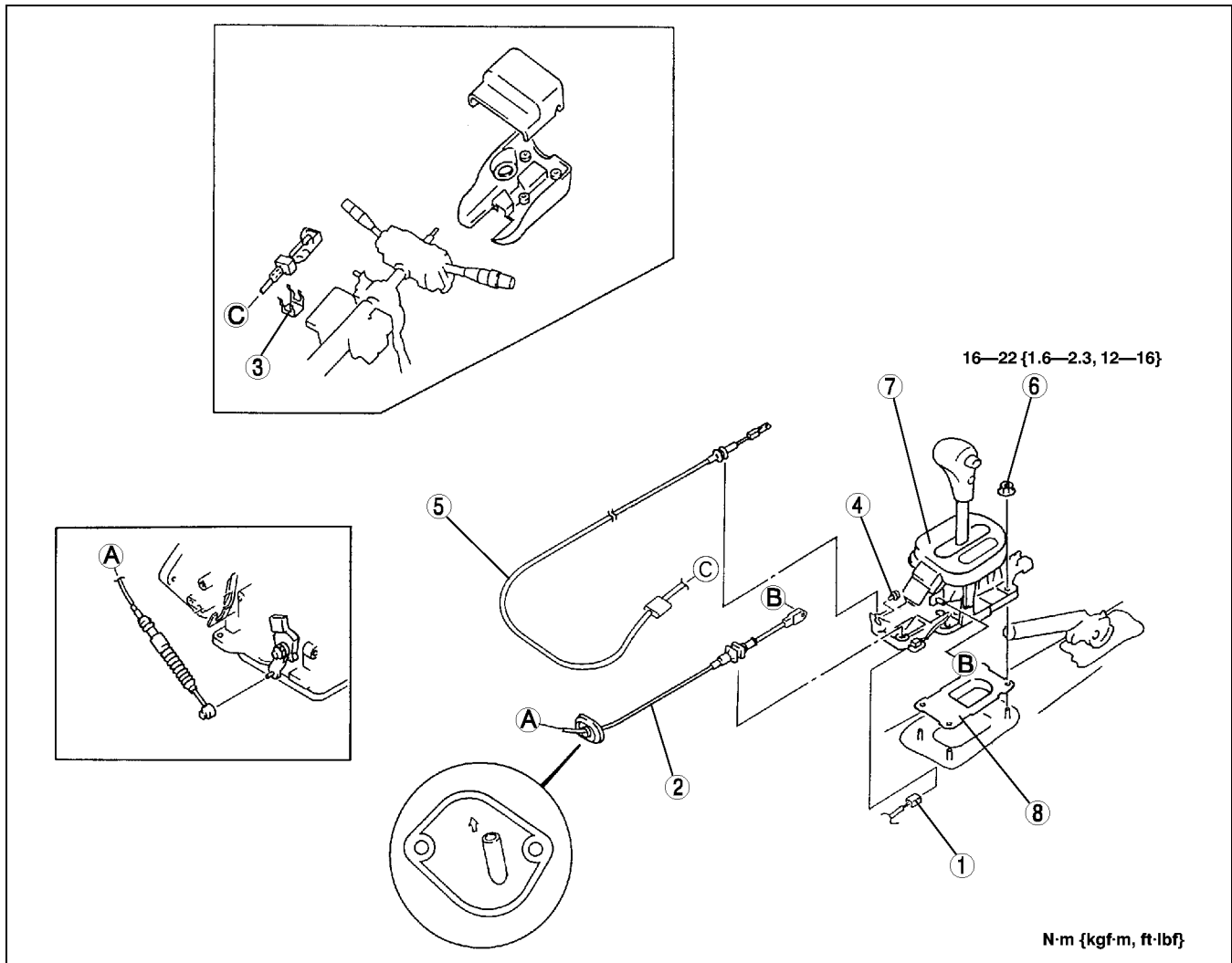
X3U518WA3

# AUTOMATIC TRANSAXLE SHIFT MECHANISM

A3U051846102W03

## SELECTOR LEVER REMOVAL/INSTALLATION

1. Disconnect the negative battery cable.
2. Remove the center console.
3. Disconnect the brake switch connector.
4. Remove in the order indicated in the table.
5. Install in the reverse order of removal.



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N·m {kgf·m, ft·lbf}

X3U518WA4

1	Connector
2	Selector cable (See 05-18-4 Selector Cable Removal Note.) (See 05-18-6 Selector Cable Installation Note.)
3	Clip
4	Clip

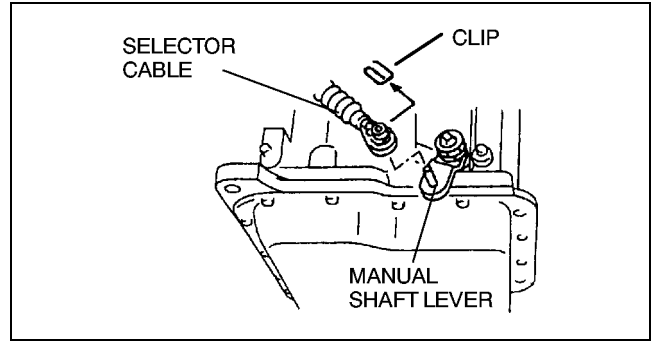
5	Interlock cable and lock unit (See 05-18-4 Interlock Cable and Lock Unit Installation Note.)
6	Nut
7	Selector lever
8	Seal rubber

# AUTOMATIC TRANSAXLE SHIFT MECHANISM

## Selector Cable Removal Note

### Note

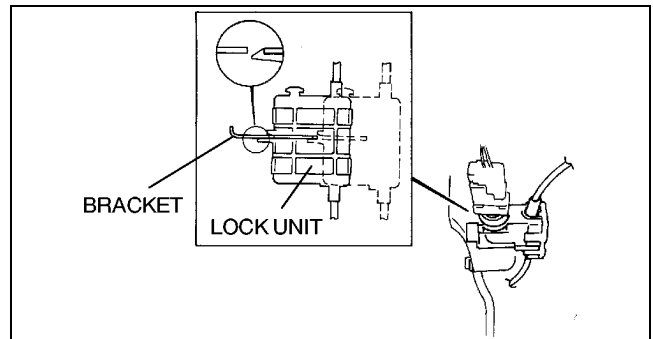
- Remove the clip shown in the figure before removing the selector cable from manual shaft lever.



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## Interlock Cable and Lock Unit Installation Note

- Verify that the ignition switch is at ACC position, and shift the selector lever to P position.
- Press the lock unit onto the brake pedal stopper bracket.
- From this position, slide the lock unit to fix the lock unit hook into the bracket hole securely as shown in the figure.
- Install the interlock cable to the key cylinder.
- Slide the outer casing to the key cylinder. Verify that the outer casing hook is secured in the cylinder hole.

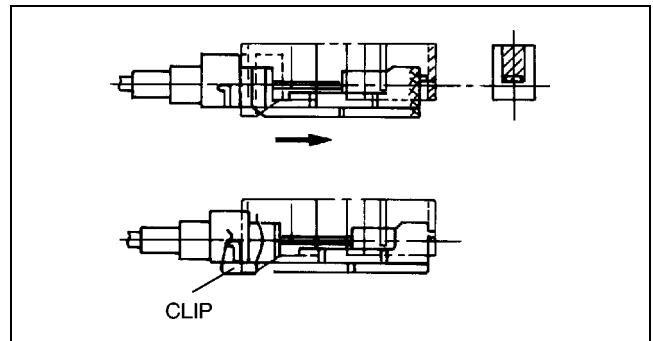


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- Insert the clip over the convex part of the outer casing.

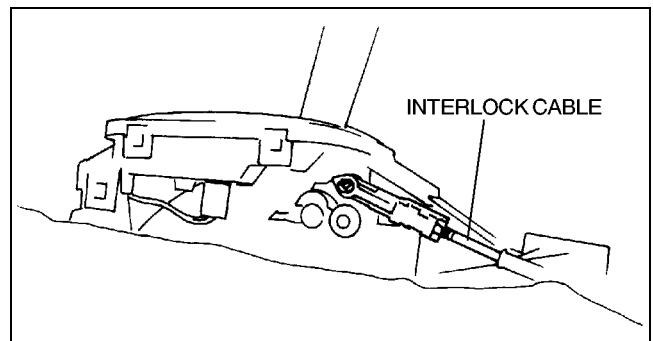
### Caution

- Allowing the interlock cable to become bent or twisted during installation can affect the lock unit operation.



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- Install the interlock cable end onto the cam pin on the selector lever.



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## AUTOMATIC TRANSAXLE SHIFT MECHANISM

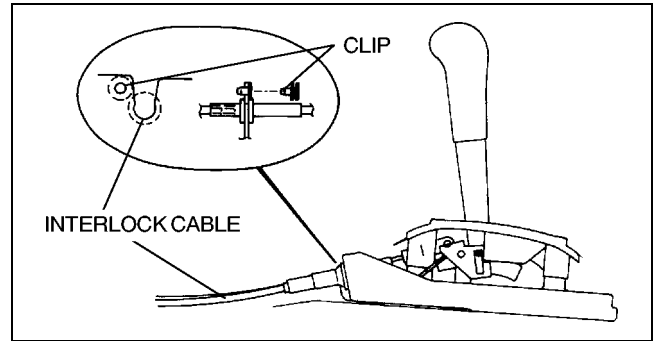
8. Fit the interlock cable in the U-groove in the selector lever base plate, and install the clip.

### Note

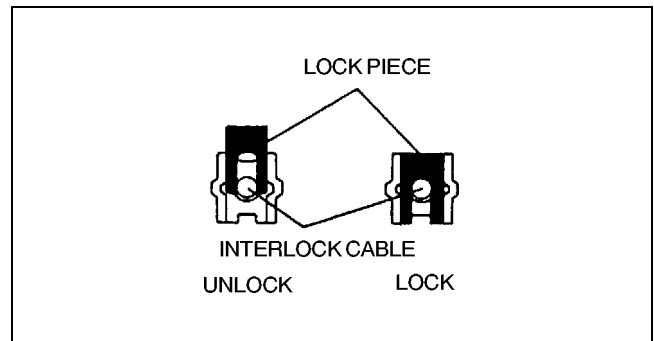
- Steps 9—12 are for the interlock cable replacement only.

### Caution

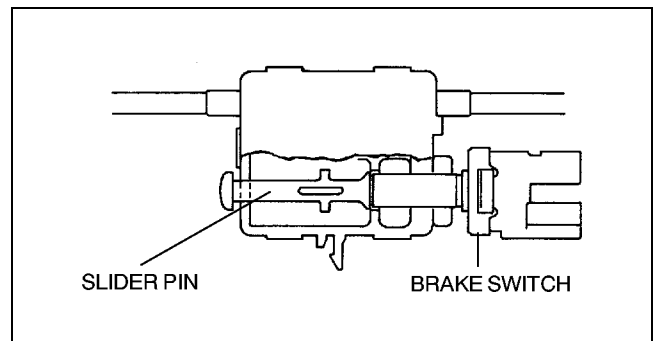
- **Applying load to the interlock cable while pressing the lock piece in can affect the lock unit operation.**



9. Press the interlock cable lock piece in until it is locked.



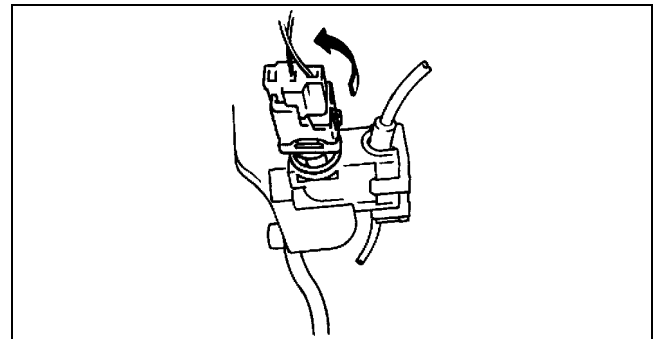
10. Screw the brake switch into the slider pin of the lock unit as far as possible.



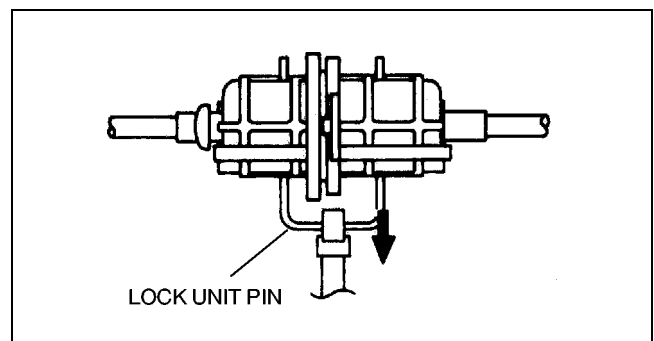
11. From this position, turn the brake switch counterclockwise **about 90 degrees**, then tighten the lock nut.

### Tightening torque

**13.8—17.6 N·m {140—180 kgf·cm, 122—156 in·lbf}**



12. Remove the lock unit pin in the order shown in the figure.



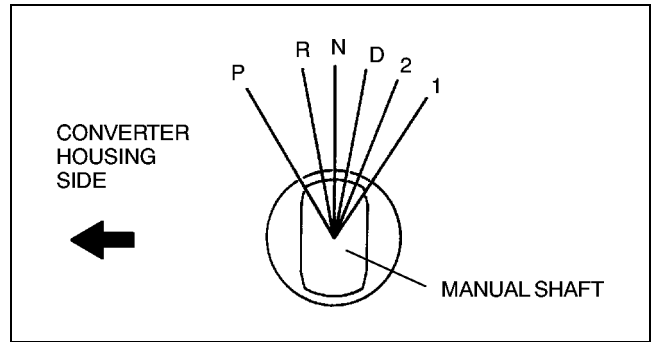
# AUTOMATIC TRANSAXLE SHIFT MECHANISM

## Selector Cable Installation Note

### Caution

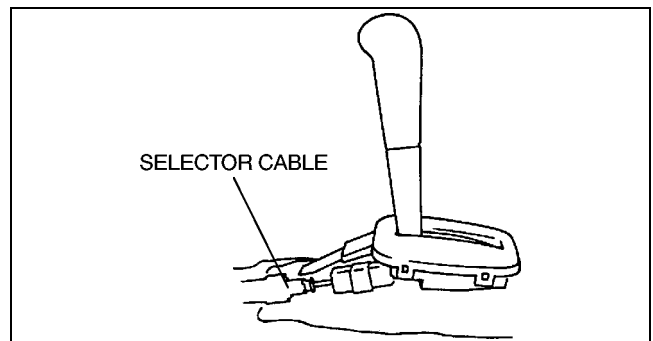
- Do not apply load to the manual shaft after manual shaft is shifted to P position. Otherwise, the transaxle may be damaged.

1. Turn the manual shaft to the converter housing side fully, to set the P position.



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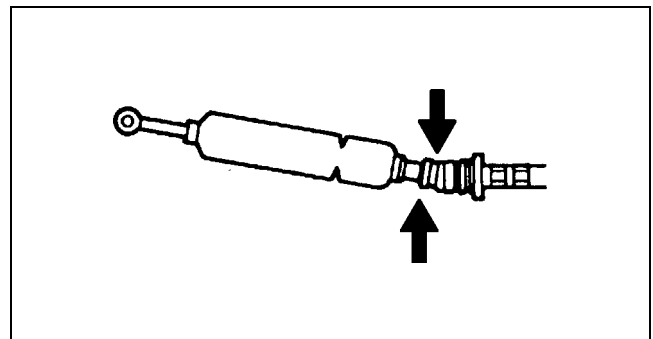
2. Install the selector cable to the selector lever.



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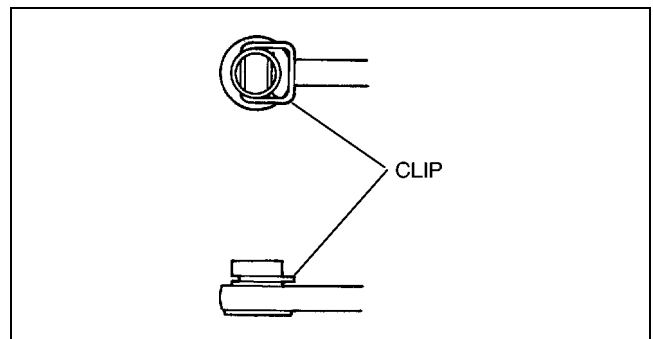
### Caution

- Bending the selector cable in the manner shown in the figure will damage the cable and it may become loose when shifted. When installing the selector cable, hold it straight.



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3. Install the clip as shown in the figure.

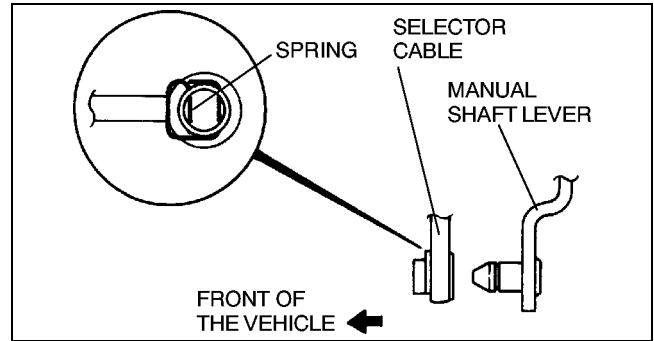


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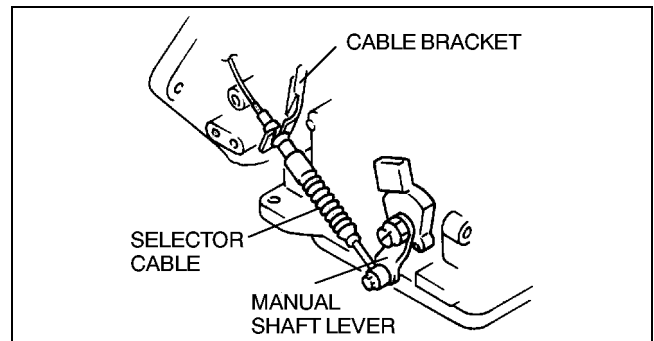
## AUTOMATIC TRANSAXLE SHIFT MECHANISM

### Note

- Install the selector cable to the manual shaft lever with the spring side of the selector cable end facing the front of the vehicle.
4. Install the selector cable to the manual shaft lever in such a way that the selector cable does not bear a load.
  5. Confirm that the end of the manual shaft lever sticks out of the end of the selector cable.
  6. Install the selector cable to the cable bracket.
  7. Verify that the selector lever is at P position.

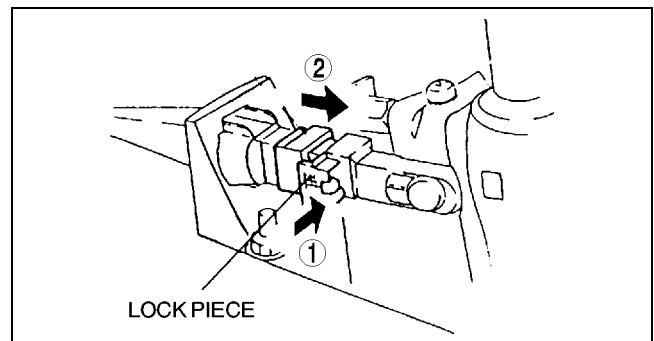


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X3U518WAH

8. Unlock the lock piece of the selector cable (selector lever side) in the order shown in the figure.
9. Shift the selector lever from P position to 1 range, and make sure that there are no other components in that area to interfere with the lever.



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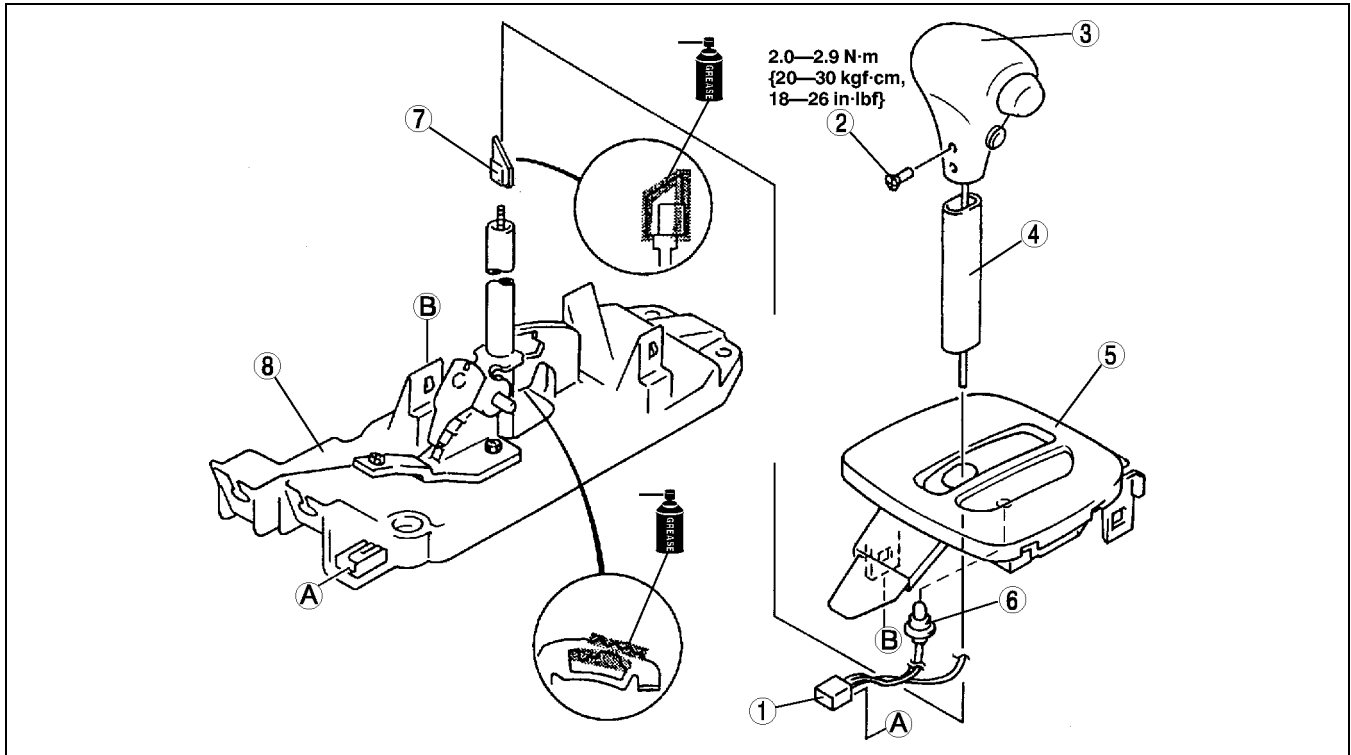
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# AUTOMATIC TRANSAXLE SHIFT MECHANISM

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## SELECTOR LEVER DISASSEMBLY/ASSEMBLY

1. Disassemble in the order indicated in the table.
2. Assemble in the reverse order of disassembly.



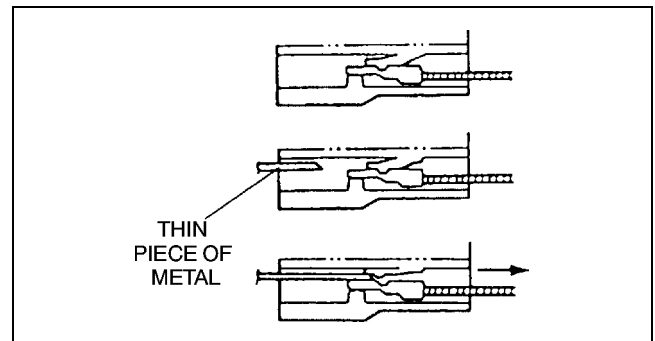
X3U518WAK

1	Connector (See 05-18-8 Connector Disassembly Note.)
2	Screw
3	Selector lever knob
4	Cover

5	Indicator panel
6	Selector illumination light
7	Cam (See 05-18-9 Cam Assembly Note.)
8	Selector lever

### Connector Disassembly Note

1. Insert a thin piece of metal from the terminal side of the connector, and press down the terminal locking tab.
2. Pull the terminal out of the connector.



X3U518WAL



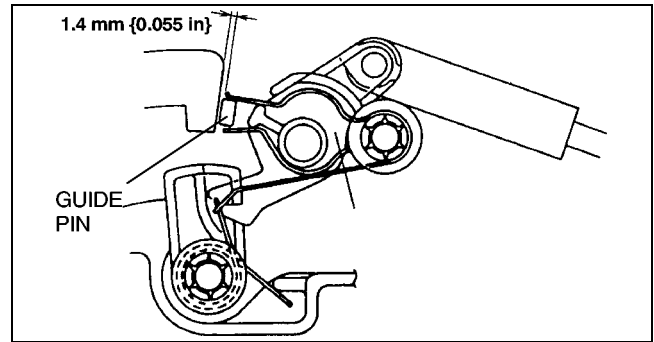
# AUTOMATIC TRANSAXLE SHIFT MECHANISM

## Cam Assembly Note

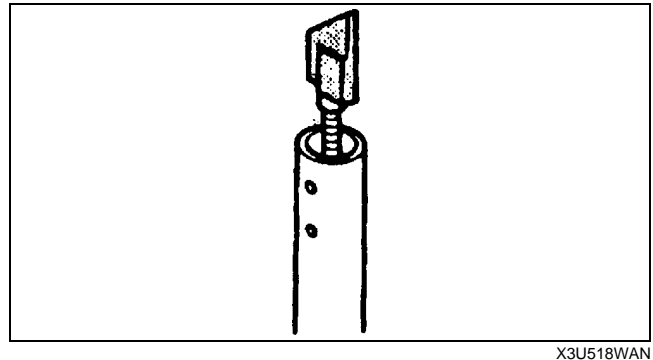
1. Loosely install the cam to the push rod.

### Note

- Clearance can be reduced by turning the cam clockwise.
2. Adjust the clearance between the guide plate and the guide pin by turning the cam.
  3. Install the selector lever knob and verify that the clearance is as specified.
    - If not, repeat from Step 2.
  4. Remove the selector lever knob.



5. Apply grease to the cam as shown.



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