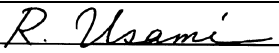




# SERVICE BULLETIN

QUALITY INFORMATION ANALYSIS  
OVERSEAS SERVICE DEPT. MITSUBISHI MOTORS CORPORATION

<b>SERVICE BULLETIN</b>		No.: MSB-97E42-501	
		Date: 1997-11-24	<Model> ALL MODELS <M/Y> 97-10
Subject: POWER WINDOW REGULATOR INSTALLATION PROCEDURE			
Group: BODY	Draftno: 97-JY-009		
CORRECTION	OVERSEAS SERVICE DEPT	 R. USAMI - MANAGER QUALITY INFORMATION ANALYSIS	

## 1. Description:

This Service Bulletin informs you of correction to the installation procedure for the power window motor and the window regulator and of addition of the limit switch resetting method.

## 2. Applicable Manuals:

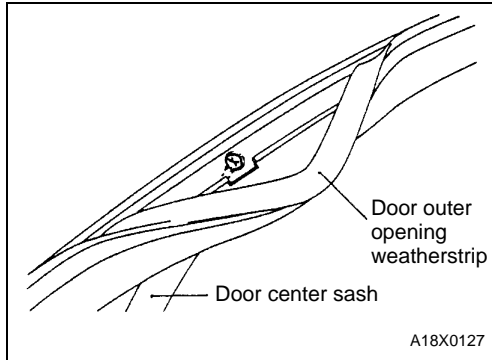
Manual	Pub. No.	Language	Page(s)
'97 GALANT Workshop Manual	PWDE9611	(English)	42-37,38,39,40
	PWDS9612	(Spanish)	
	PWDF9613	(French)	
	PWDG9614	(German)	
	PWDD9615	(Dutch)	
	PWDW9616	(Swedish)	

## 3. Details:

'97 GALANT Workshop Manual

**REMOVAL SERVICE POINTS****◀A▶ POWER WINDOW MOTOR ASSEMBLY****Caution**

Be careful when handling the power window motor assembly, as the force of the spring may cause the wires to pull out of the drum.

**◀B▶ DOOR CENTER SASH REMOVAL**

1. Remove the door outer opening weatherstrip from the door center sash only.
2. Remove the door center sash mounting screws, and then remove the door center sash from the door panel.

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Change to page 3 of this bulletin.

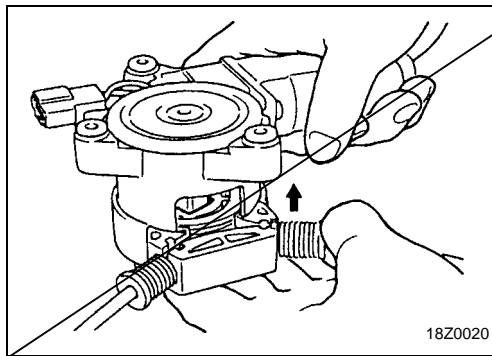
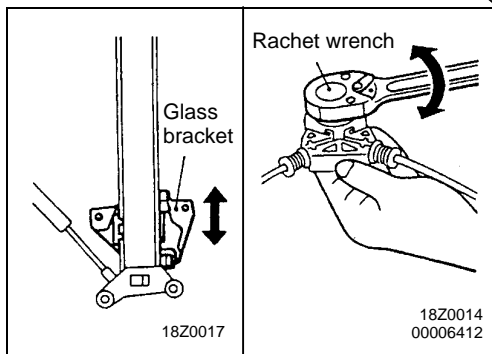
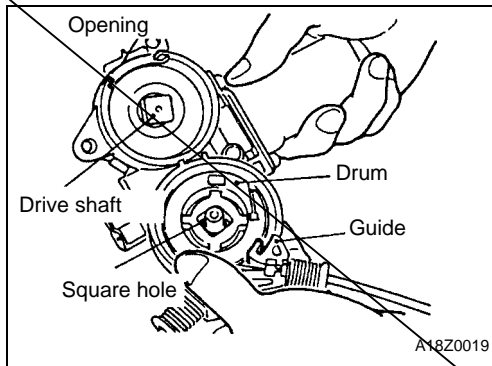
**INSTALLATION SERVICE POINTS****▶A◀ POWER WINDOW MOTOR ASSEMBLY/WINDOW REGULATOR ASSEMBLY****POWER WINDOW MOTOR ASSEMBLY AND WINDOW REGULATOR ASSEMBLY INSTALLATION PROCEDURE**

1. Align the power window motor drive shaft and the square hole in the drum while using the guide and the opening in the motor housing as a reference for the installation position.

**NOTE**

- (1) Align the square hole with the drive shaft by sliding the glass bracket (glass mounting section) or by turning the drum using a ratchet wrench (with a socket diameter of 12.7 mm).
- (2) Support the drum and the guide with your hand while turning the drum, otherwise the wires may pull out of the drum.
- (3) If the wires pull out of the drum, re-insert them by following the drum and regulator wire installation procedure.

2. Align the guide and the opening of the motor housing, and slide the guide into the motor housing while holding the guide and drum.



1. Connect the power window motor assembly to the body side harness connector, and turn the ignition switch ON.
2. Operate the power window switch toward UP side until the motor ceases to turn.

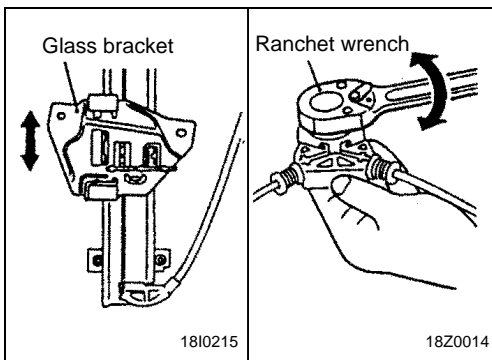
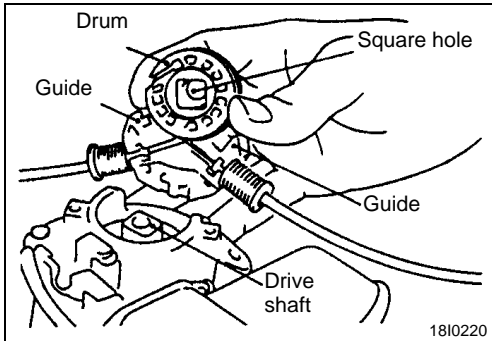
**NOTE**

The motor automatically ceases to turn. This causes the limit switch inside the power window motor to be reset.

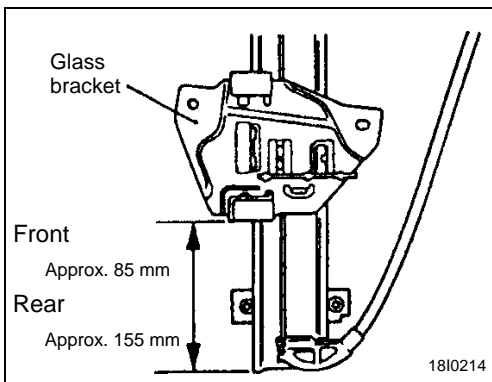
**Caution**

**In subsequent steps, do not operate the power window motor assembly until the window glass is installed.**

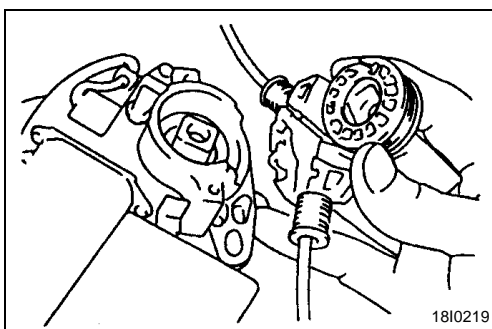
3. Turn the ignition switch OFF, and remove the power window motor assembly from the body side harness connector.
4. Align the power window motor drive shaft and the square hole in the drum by the following procedure while using the guide and the opening in the motor housing as a reference for the installation position.



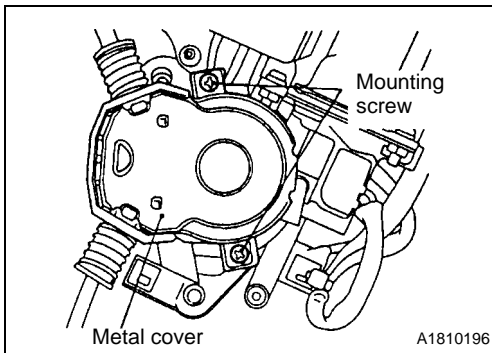
- (1) Align the square hole with the drive shaft by sliding the glass bracket (glass mounting section) or by turning the drum using a ratchet wrench (with a socket diameter of 12.7 mm).



- (2) Support the drum and the guide with your hand while bringing the glass bracket to the illustrated dimensional position, otherwise the wires may pull out of the drum as it turns.
- (3) If the wires pull out of the drum, re-insert them by following the drum and regulator wire installation procedure.



5. Align the guide and the opening of the motor housing, and slide the guide into the motor housing while holding the guide and drum.



3. Install the metal cover securely to the housing.

### Caution

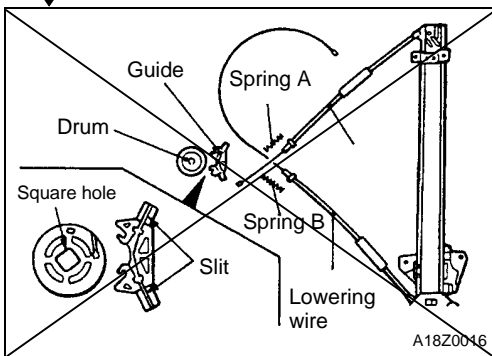
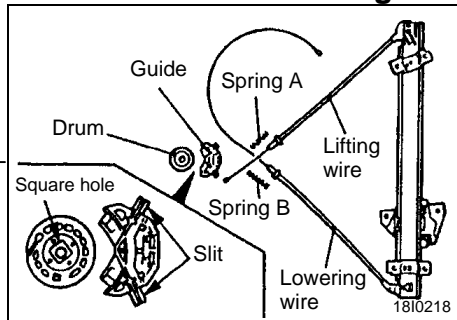
**Make sure that the metal cover is installed securely and does not move, in order to stop the drum from vibrating. If the drum vibrates, the glass may not slide up and down smoothly, or it may fall down.**

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6.

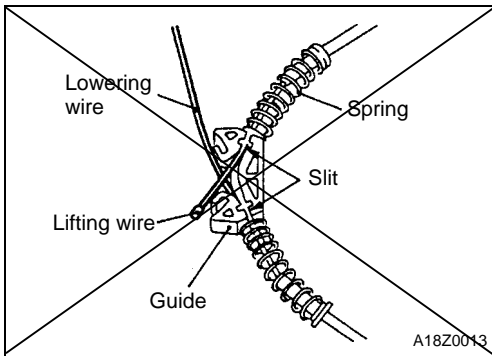
4. Apply battery voltage to the power window motor, and check that the glass bracket moves smoothly.

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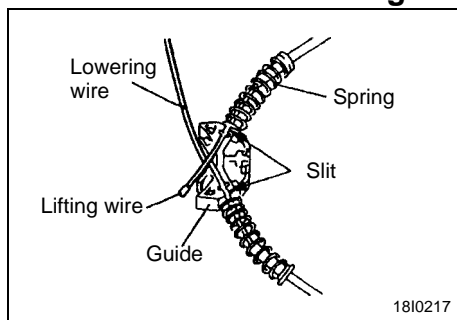


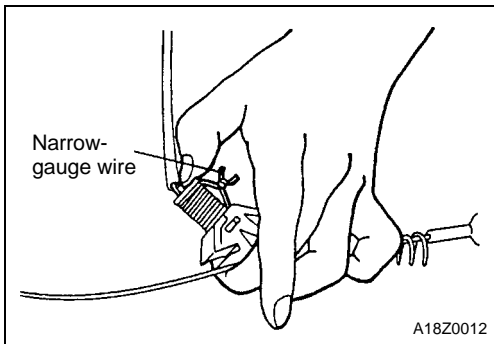
## DRUM AND REGULATOR WIRE INSTALLATION PROCEDURE

- Place the drum, guide and regulator on a work bench as shown in the illustration.
  - Place the drum so that the square hole is facing upward.
  - Place the guide so that the slits are facing upward.
  - Place the regulator so that the glass bracket is facing downward. Position the glass bracket so that glass is in the fully-open position.
- Pass the springs over the wires, and then install the lowering wire to the guide first, followed by the lifting wire. (The lifting wire should be on top of the lowering wire.)



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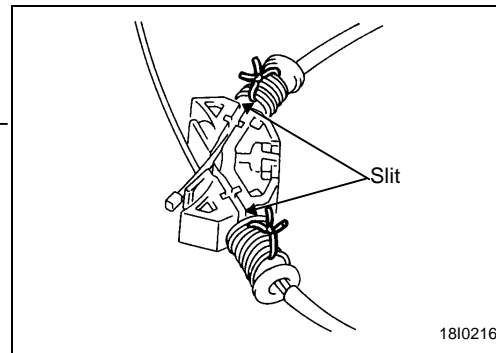
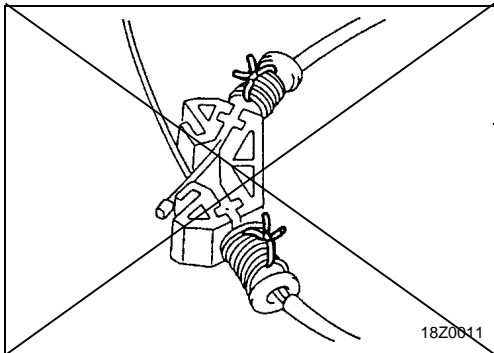
3. ~~Use some narrow-gauge wire (approx. 0.5 mm diameter) to compress the springs.~~

**NOTE**

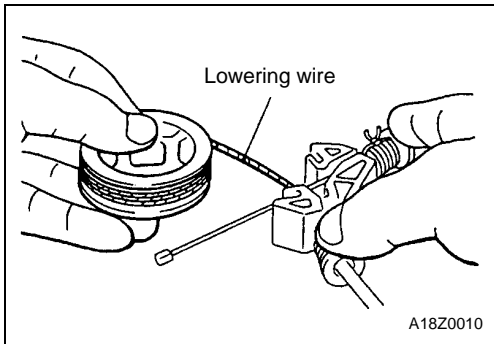
~~Tie the narrow-gauge wires to the slits in the guide.~~

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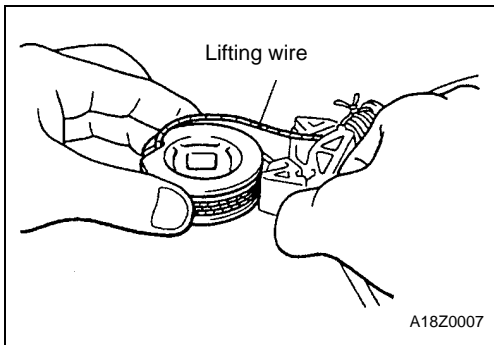
- Use a wire (approx. 0.5 mm diameter) to compress the springs, and then tie wires to the slits in the guide



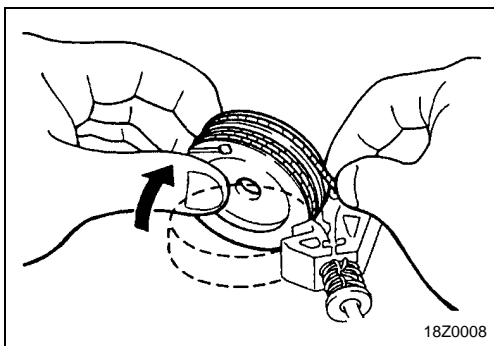
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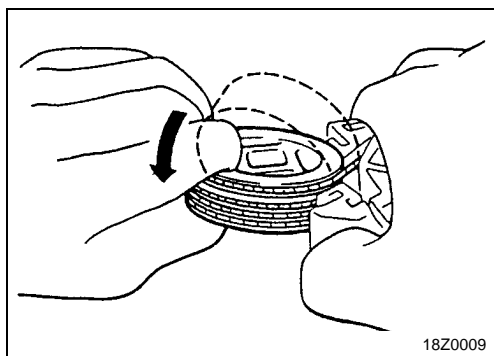
4. Insert the end of the lowering wire into the wire hole at the bottom of the drum, and then wrap the wire securely around the groove of the drum form the bottom so that there is no slackness in the wire.



5. Install the lifting wire to the drum as follows:  
(1) Insert the end of the lifting wire into the wire hole at the top of the drum.



- (2) Raise the front of the drum until the drum is vertical, and then position the lifting wire in the groove of the drum.



- (3) Return the drum to its original position while holding the wires to make sure that they do not pull out.
6. After installing the power window motor assembly to the window regulator assembly, cut and remove the wires which are compressing the springs.

### ►B◄ DOOR WINDOW GRASS INSTALLATION

1. Provisionally secure the door window glass to the window regulator assembly.
2. After raising the door window glass as far as it will go, fully secure the door window glass to the window regulator assembly.

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#### NOTE

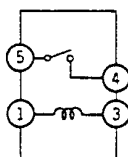
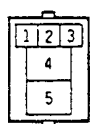
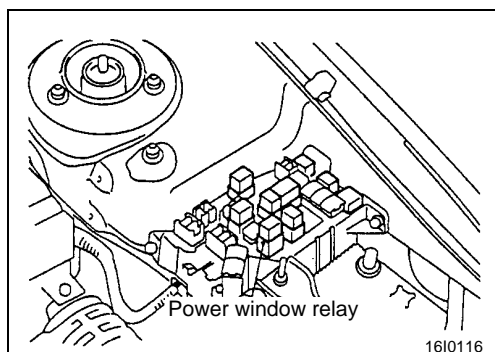
Fully raising the door window glass will set the door limit switch to the correct position.

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### INSPECTION

#### POWER WINDOW RELAY CONTINUITY CHECK

System voltage	Terminal No.			
	1	2	4	5
Not applied	○	○		
Applied	⊕	⊖	○	○



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00005645

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#### Operation check

1. Fit the door window glass to the regulator assembly.

#### Caution

**Do not operate the window regulator assembly before fitting the window glass, as this causes the reset of the limit switch to be released.**

2. Fully close the window glass.

#### NOTE

- (1) The limit switch completes its learning upon full closure of the window glass.
- (2) When the window glass fully closes for the first time, pinchedness prevention function is not activated.
3. After the window glass has fully closed, make sure that the window regulator assembly operates properly.