

## 47. Completion Controller Set (C)

Completion controller	1 pc
Free ball (B)	1 pc
2 mm nut	1 pc
Ball end	1 pc
Rod adjuster (Short)	1 pc
Heat resistant tape	1 pc

The speed controller has been replaced to a new type and spare part No.14 Controller is no longer produced. The new Speed Controller is a sealed, dust-proof type and longer testing than before. Please follow these new assembly instructions below when assembling, testing and connecting with motor, since extra process for chassis is required depending on each model.

**Dealing with fine cord attached to the connector.**  
When you use this controller to other models than Galaxy, to get power source of Receiver in common with Battery Pack. For Galaxy use, please refer to the Assembly Instruction Book.

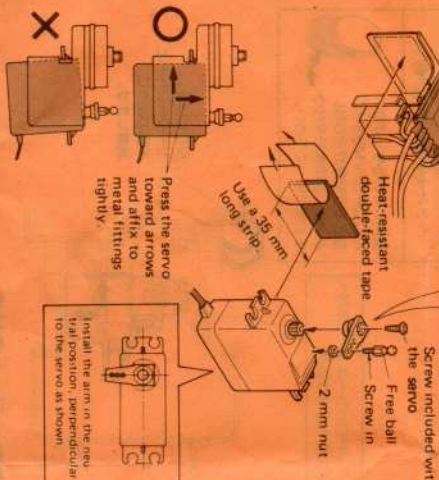
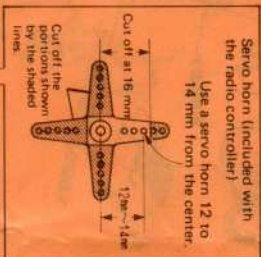
Connector

Cut off (not required)

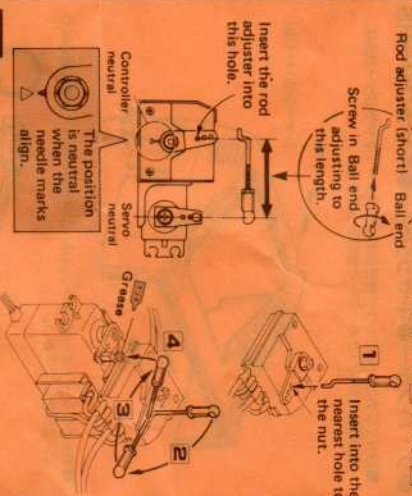
## 1 Servo installation.

(Connect the two servos with the receiver during this assembly.)

- Clean tape mounting areas with alcohol thinner to plastics or other suitable.
- Do not touch the adhesive surface after removing the backing paper. (Oil on your fingers may reduce bonding strength.)
- Press firmly on the controller component to ensure complete bonding.

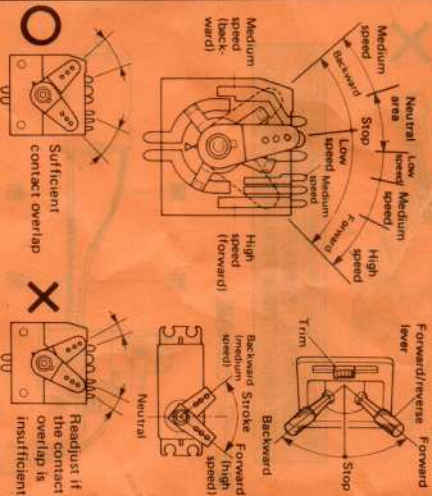


## 2 Rod Adjuster installation and neutral.

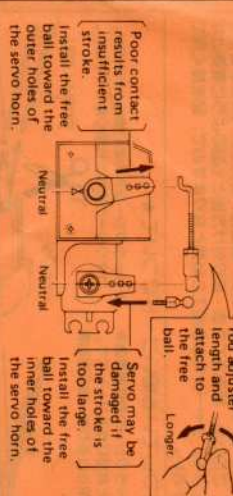


## 3 Controller test

- Servo horn stroke differs by servo type. Test the assembled controller to see if the switch arm moves all the way to its forward (high speed) to reverse (medium speed) positions by moving the lever up and down.



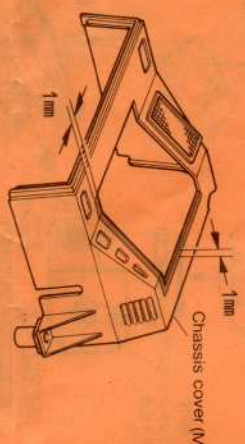
## In the case of faulty moving.



## 4

After testing, install to the chassis. BUT, if the former type controller was installed before, extra process is required for installation depending on each model. Please read the following instructions carefully.

GALAXY · GALAXY-RS installed the former type controller before. Shave the portion indicated with cutter or file.

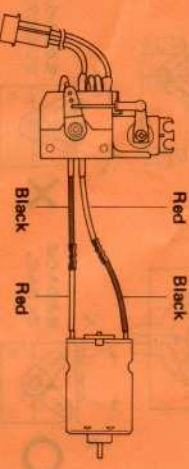


GALAXY, GALAXY-RS Leave the connector lead on the upper side free like this.

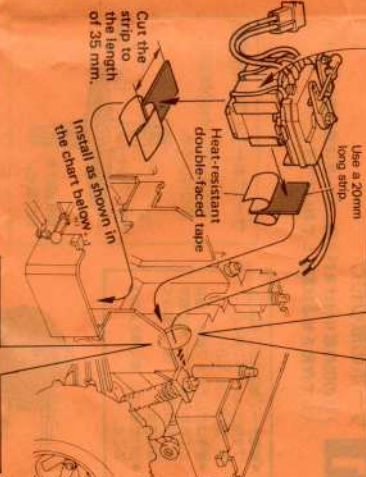
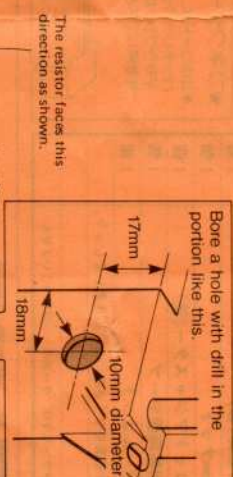


GALAXY, GALAXY-RS, HUNTER installation way and direction are the same as before with the former type controller. Refer to the instruction Book you have now for each model.

## Controller and motor lead connections

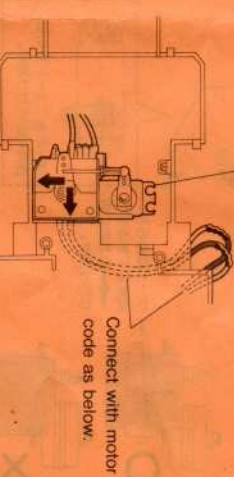


BIG BEAR, TOYOTA LANDCRUISER, CL-7 installed the former type controller before. It is required to bore a hole in the chassis.

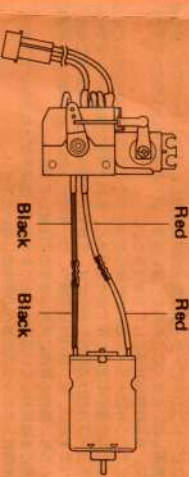


Insert the speed controller leads through this hole.

When K.O. Servo PS-VAS installed, please shave the hole as this.



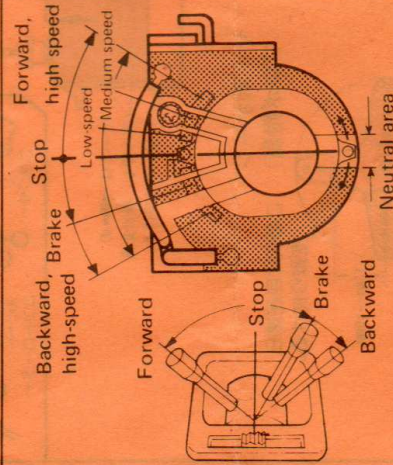
## Controller and motor lead connections





## 14. Completion Controller Set (A)

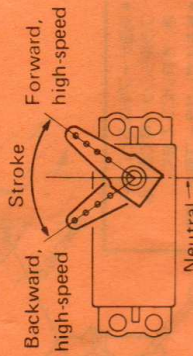
Completion controller	1 pc
Free ball (B)	1 pc
2 mm nut	1 pc
Ball end	1 pc
Rod adjuster (Short)	1 pc
Heat resistant tape	1 pc
★ Be careful not to loose parts.	
• Servo and servo horn are not included	



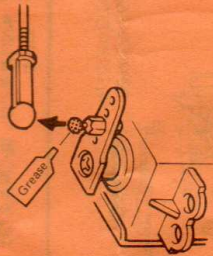
- The controller may be damaged if it is used incorrectly. The controller has built-in resistors which may over-heat or burn if it is used only at low or medium speed ranges. Operate the model at its high-speed setting as much as possible.
- A large electric current is applied to the controller. The controller switch repeats turning ON and OFF the current, which shortens its life. Please understand that it is a kind of consumable part.
- Do not touch the controller soon after operation as its resistors may be hot.
- Defective controller installation, or faulty switch movement resulting from incorrect switch head location or wire placement may cause the resistors to over-heat and burn the bakelite electric component.
- Avoid the use of the controller in a closed mechanical box as it contains heat generating resistors.

## Stroke adjustment

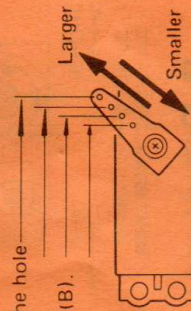
Servo horn stroke differs by servo type. Perform a test to see if the switch arm moves all the way to its forward (high-speed) and backward (high-speed) positions by moving levers up and down. Adjust if the stroke is excessive or too small as shown on the right.



Perform stroke adjustment as follows (observe the order):

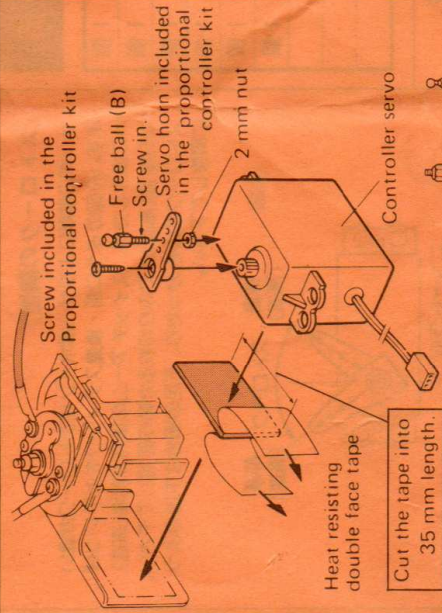
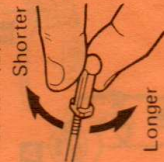


① Disconnect the rod ball end.

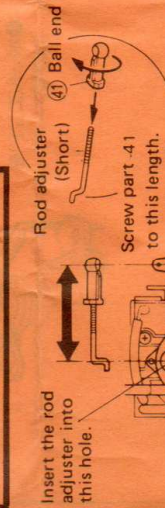


② Change the hole holding free ball (B).

③ Adjust rod adjuster length and connect with free ball (B).

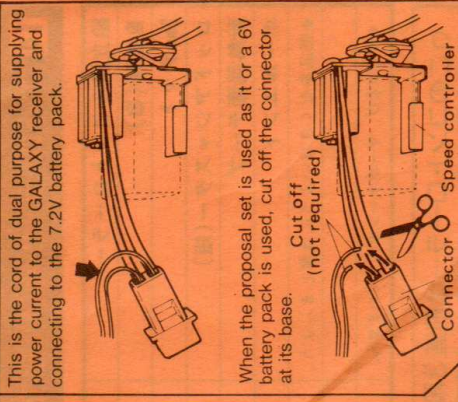
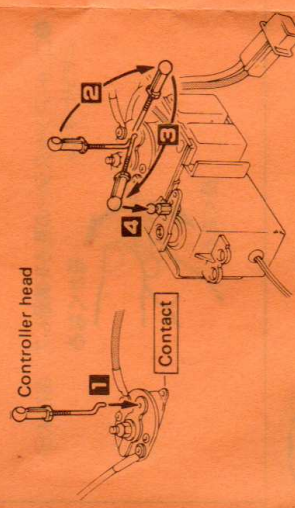


- Clean bonding area with thinner for use on plastic.
- Apply sufficient pressure the controller servo.
- Do not touch adhesive face after removing the backing paper.



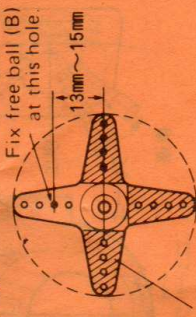
(Setting the controller head contact in the neutral area places the servo horns to their neutral positions.)

Assemble in the order ① through ④

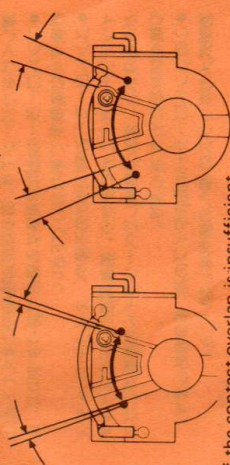
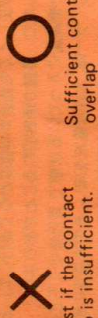


Press the servo toward the arrow, and affix to metal fittings tightly.

Servo horn (Included in the proportional controller kit)



Remove the oblique portion: «Contact point placement»



If the contact overlap is insufficient, shift the free ball toward the 15 mm hole on the servo horn.