

# BRUSHLESS SPEED KIT

## INSTALLATION INSTRUCTIONS

Thank you for purchasing the Dromida Brushless Speed Kit. It is strongly recommended to completely read this manual before use. Damage resulting from misuse or modification will void your warranty.

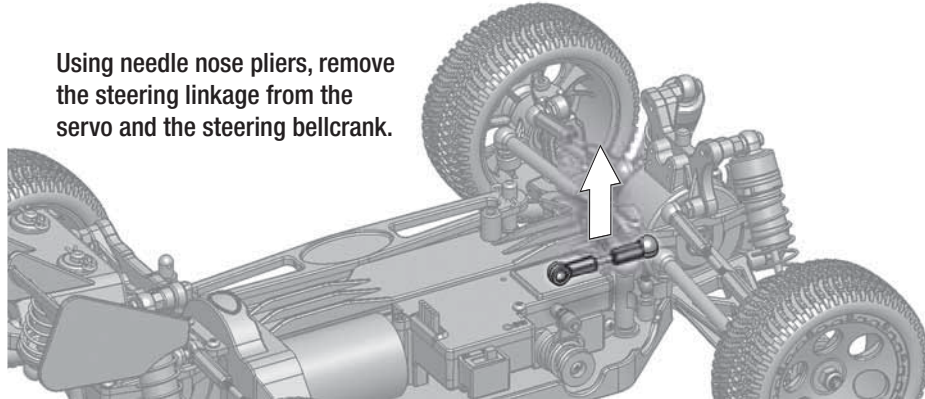
### REQUIRED TOOLS

The following items are needed to install your Speed Kit.

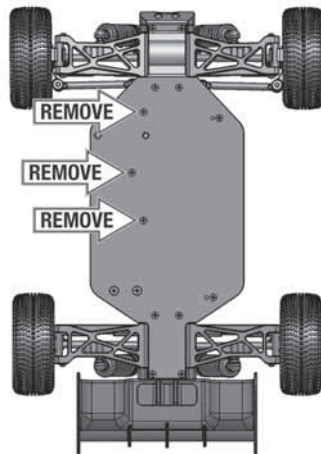
- ✓ Phillips head screw driver
- ✓ 2mm hex wrench
- ✓ Double sided servo tape (DTXR1215)
- ✓ 3/16" nut driver
- ✓ 2.5mm hex wrench
- ✓ 1.5mm hex wrench
- ✓ Needle nose pliers

### 1. REMOVE STEERING LINKAGE

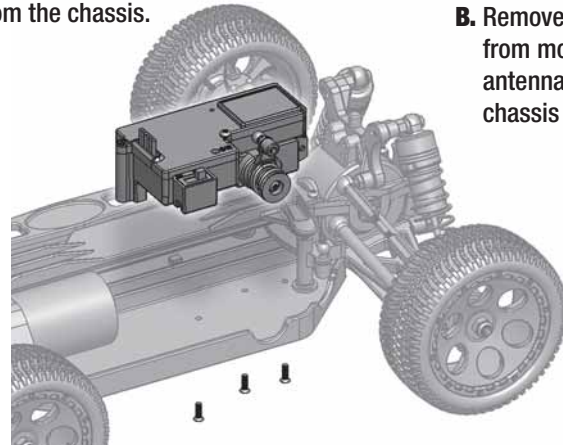
Using needle nose pliers, remove the steering linkage from the servo and the steering bellcrank.



### 2. REMOVE 2N1



Remove the 2N1 assembly from the chassis.

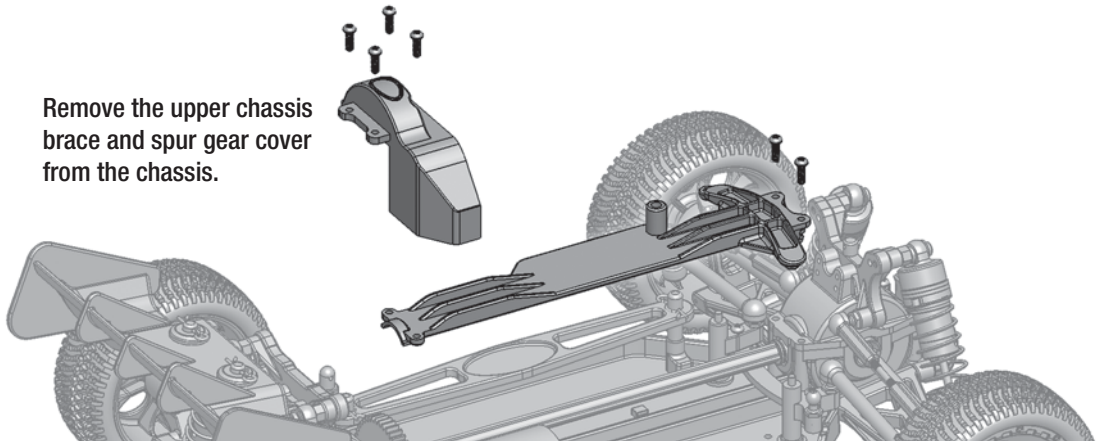


**A.** Unplug motor connector.

**B.** Remove the antenna tube from mount and slide antenna through upper chassis brace.

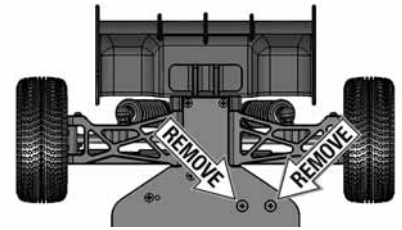
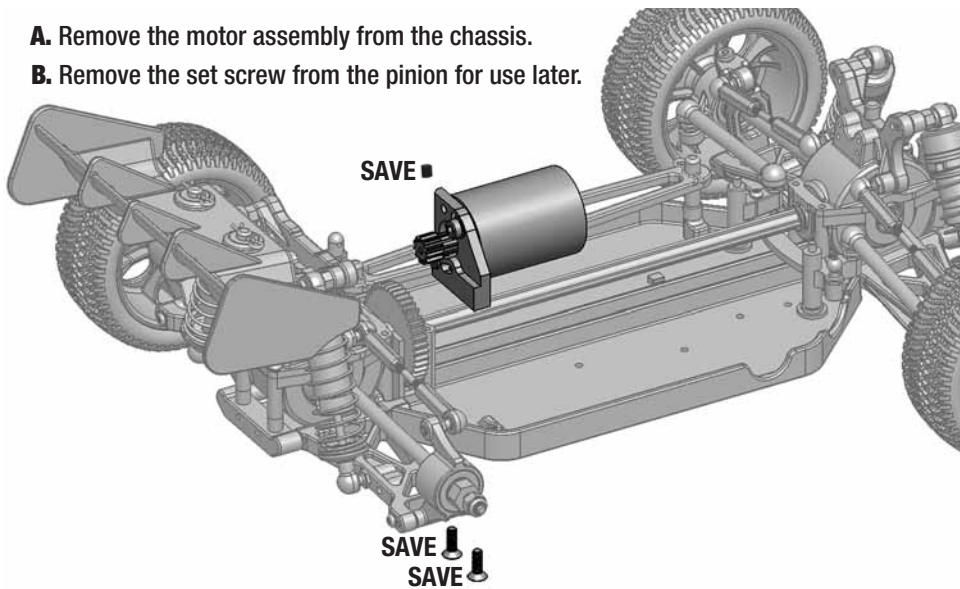
### 3. REMOVE CHASSIS BRACE

Remove the upper chassis brace and spur gear cover from the chassis.



## 4. REMOVE MOTOR

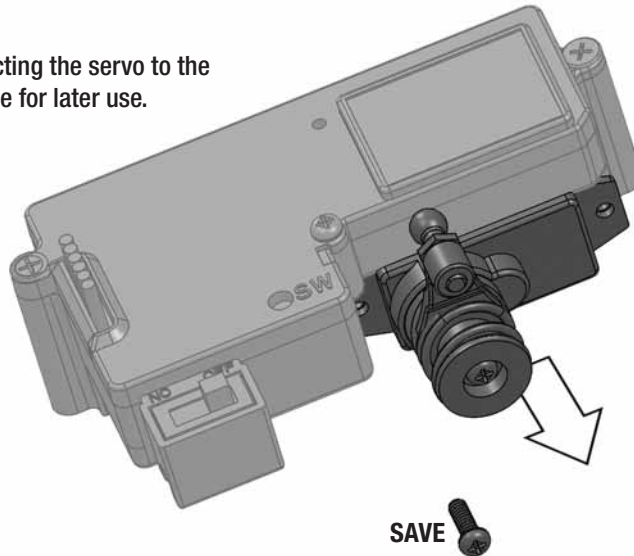
- A. Remove the motor assembly from the chassis.
- B. Remove the set screw from the pinion for use later.



- C. Remove the motor mount from the motor. Save the washers.

## 5. REMOVE SERVO

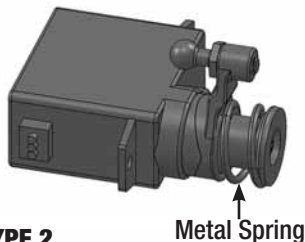
Remove the screws connecting the servo to the 2N1 Unit and set them aside for later use.



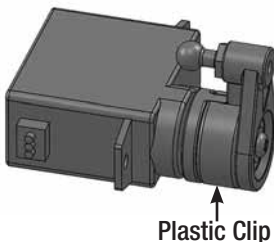
## 6. SERVO SAVER

There are two types of servo savers.

### TYPE 1



### TYPE 2



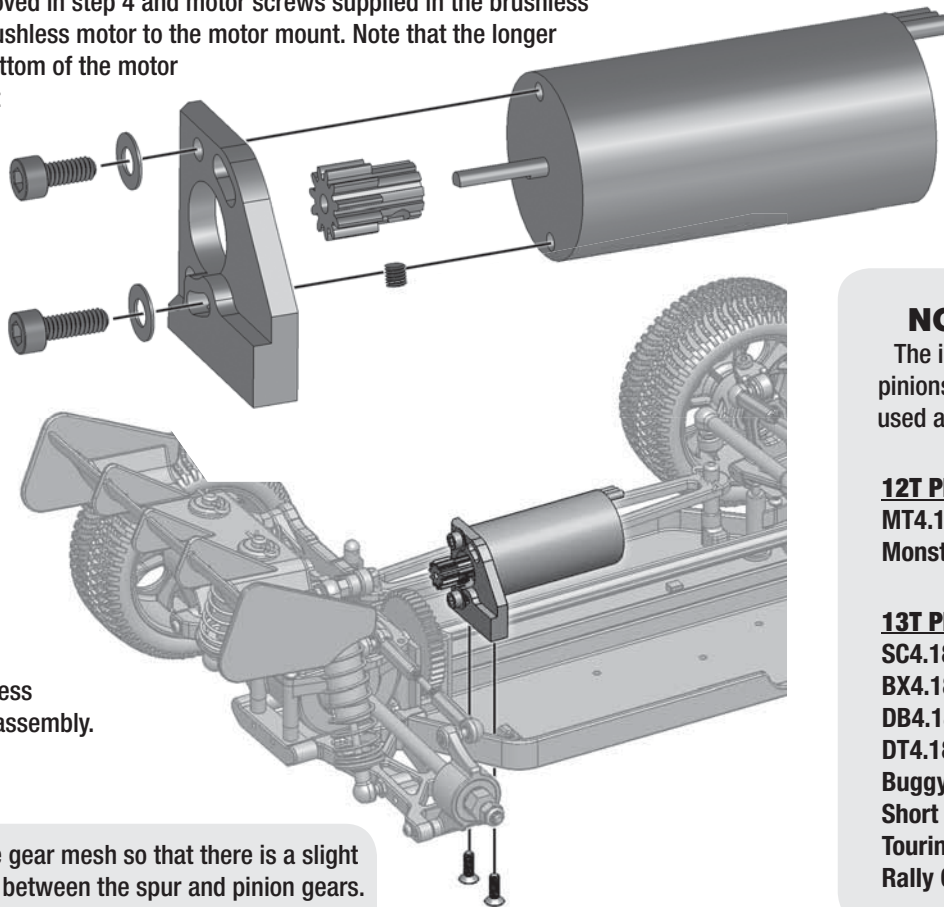
If your kit has Type 1, follow steps A, B and C below. If it has Type 2, proceed to Step 7.



- A. Remove the servo saver mounting screw and washer. Set them aside for later use.
- B. Remove the remaining servo saver components as shown.
- C. Remove the ball end from the servo horn and set it aside for later use.

## 7. INSTALL BRUSHLESS MOTOR

- A.** Install the pinion onto the motor using the set screw removed in step 4. Make sure that the pinion set screw seats on the flat side.
- B.** Using the washers removed in step 4 and motor screws supplied in the brushless speed kit, attach the brushless motor to the motor mount. Note that the longer screw is used on the bottom of the motor mount is thicker. **Do not fully tighten the motor mounting screws at this time.**



### **NOTE!**

The included pinions must be used as follows:

#### **12T PINION**

**MT4.18**  
**Monster Truck**

#### **13T PINION**

**SC4.18**  
**BX4.18**  
**DB4.18**  
**DT4.18**  
**Buggy**  
**Short Course**  
**Touring Car**  
**Rally Car**

- C.** Install the brushless speed kit motor assembly.

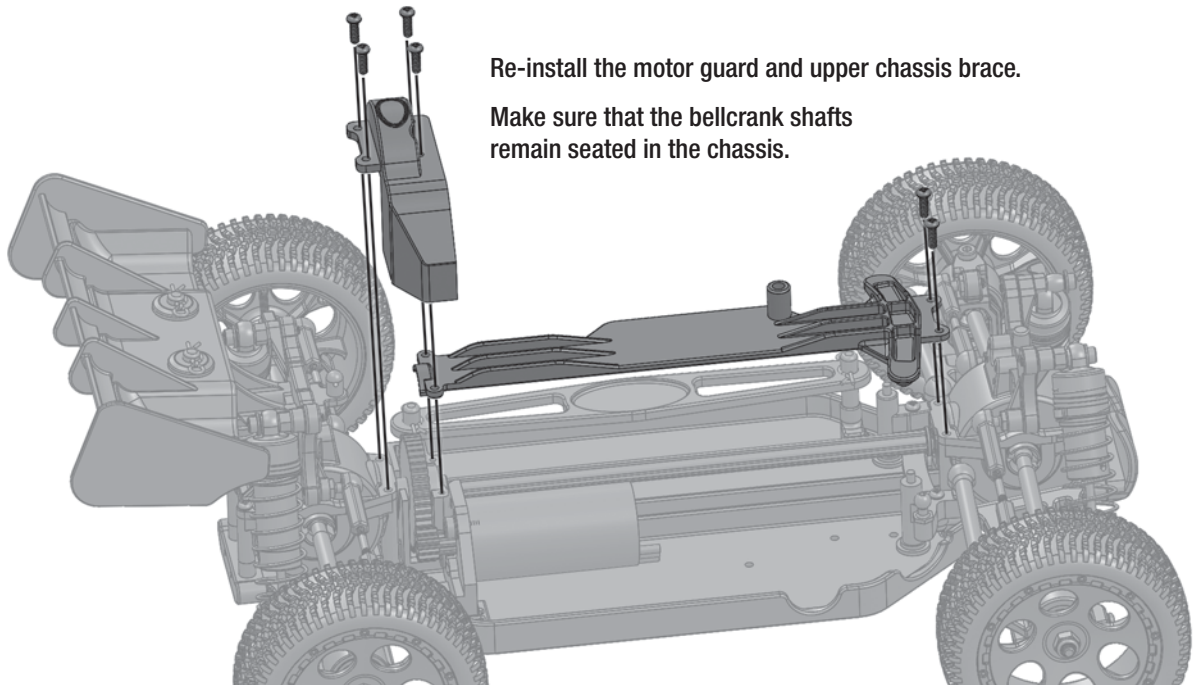


Set the gear mesh so that there is a slight “rock” between the spur and pinion gears. Once the gear mesh is set, tighten the motor mounting screws.

## 8. RE-INSTALL SPUR GEAR COVER AND BRACE

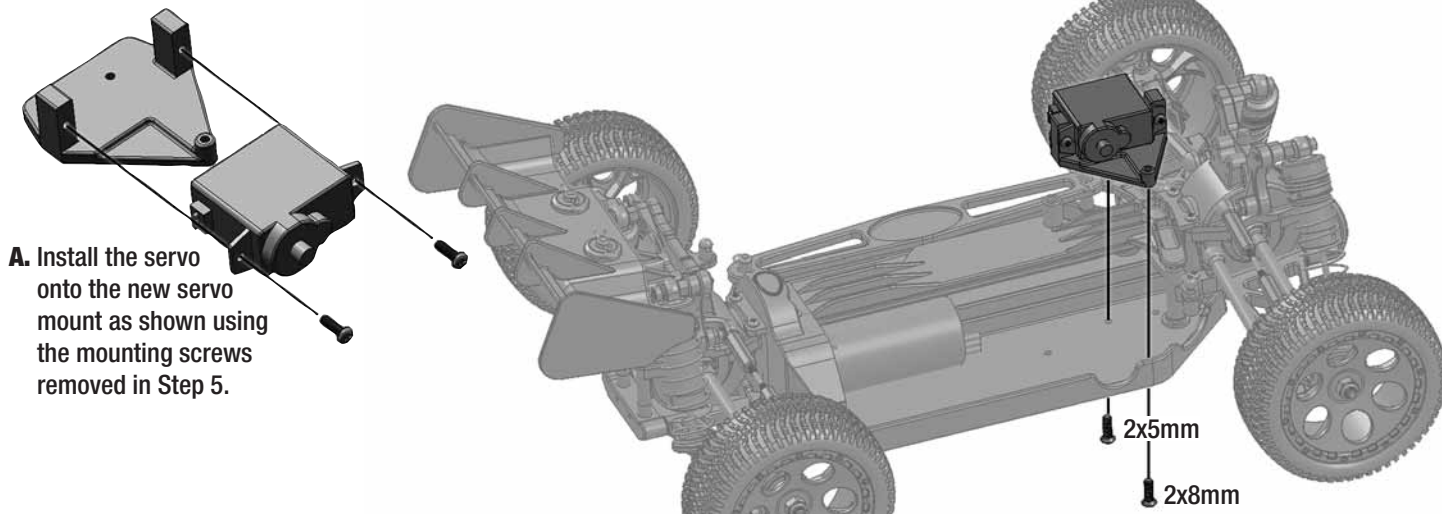
Re-install the motor guard and upper chassis brace.

Make sure that the bellcrank shafts remain seated in the chassis.





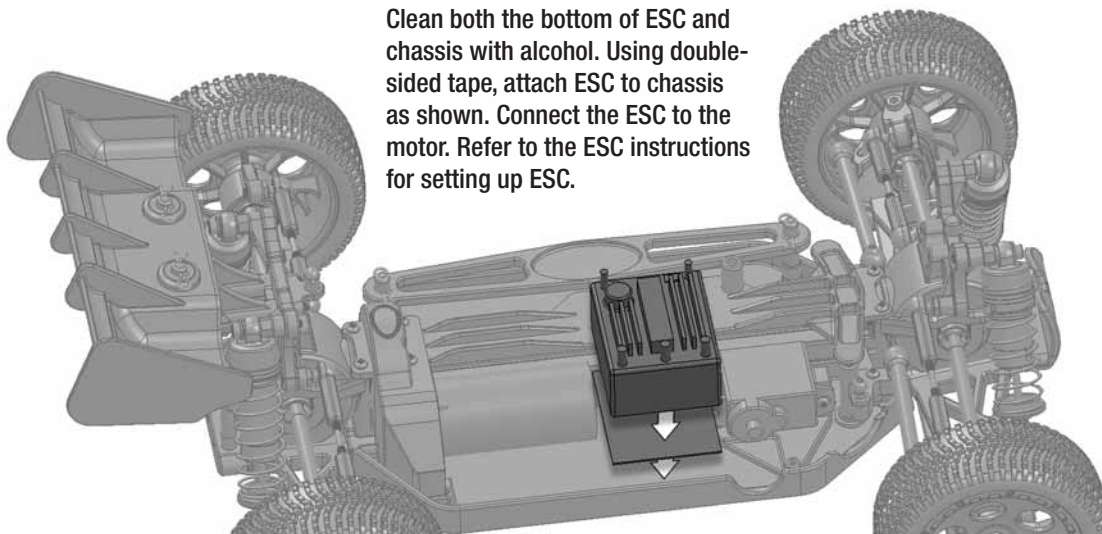
## 9. SERVO ASSEMBLY



**A.** Install the servo onto the new servo mount as shown using the mounting screws removed in Step 5.

**B.** Install the servo and servo mount to the chassis. Use the 2x8mm screw included in the brushless speed kit and 2x5mm from Step 2.

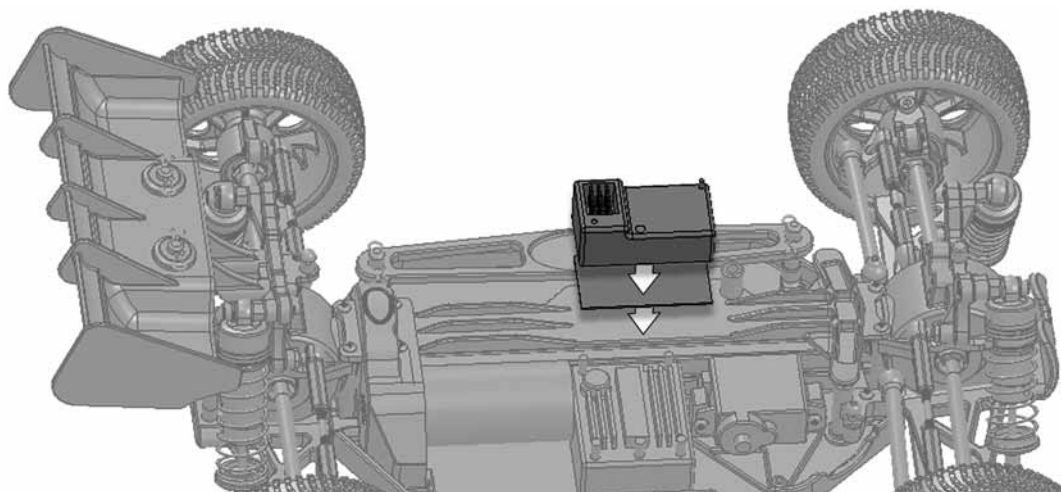
## 10. ESC INSTALLATION



Clean both the bottom of ESC and chassis with alcohol. Using double-sided tape, attach ESC to chassis as shown. Connect the ESC to the motor. Refer to the ESC instructions for setting up ESC.

## 11. RECEIVER INSTALLATION

Clean both the bottom of the receiver and the chassis brace with alcohol. Install the receiver onto the upper chassis brace using double-sided tape. Plug ESC into CH2 and servo into CH1 of the receiver. Route the antenna wire through the antenna mount and reinstall the antenna tube.



## 12. BINDING PROCEDURE

The receiver included with the Brushless Speed Kit is designed to work with the Dromida D100/103 transmitters. The receiver **MUST** be bound to the transmitter before running the vehicle.

1. Turn on the transmitter.
2. Turn on the receiver.
3. Press and release the “BIND” button on the receiver.

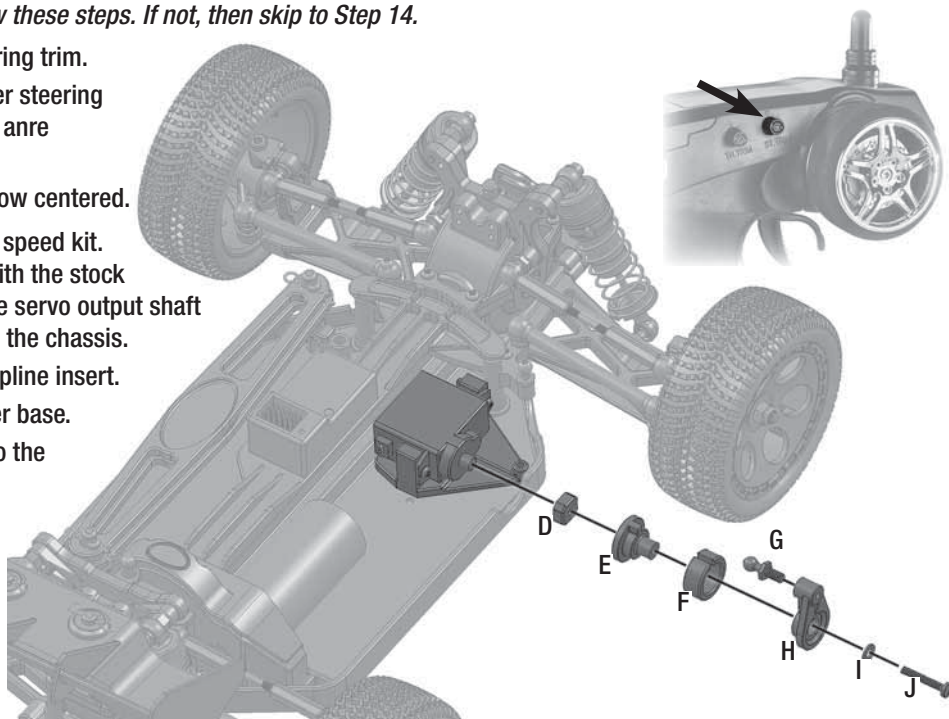
At this point, the receiver should be bound to the transmitter.



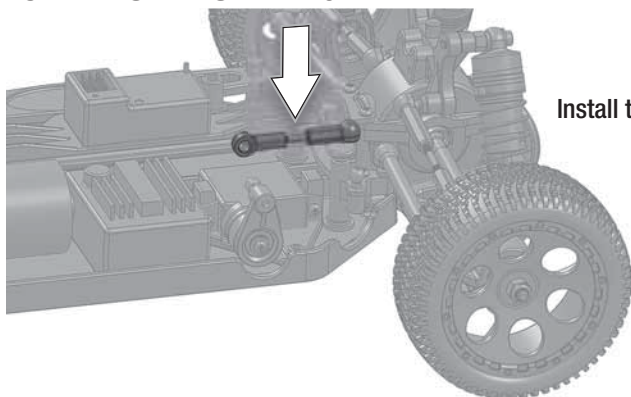
## 13. STEERING

If you removed the servo save in Step 6, follow these steps. If not, then skip to Step 14.

- A.** Turn on the transmitter and center the steering trim.
- B.** Turn on the vehicle and move the transmitter steering wheel to verify the transmitter and receiver are communicating.
- C.** Release the wheel so it and the servo are now centered.
- D.** There are two spline inserts included in the speed kit. The version with the smaller hole is used with the stock servo. Install the servo spline insert onto the servo output shaft with the top and bottom edges parallel with the chassis.
- E.** Place the servo saver base onto the servo spline insert.
- F.** Install the servo clip onto the the servo saver base.
- G.** Screw the ball stud (set aside in Step 9) into the servo saver arm.
- H.** Place the servo saver arm onto the servo clip.
- I.** Place the washer on the servo saver mounting screw.
- J.** Install the servo saver mounting screw into the servo.



## 15. RE-INSTALL STEERING LINK



Install the steering link (removed in Step 1).

## 15. TRIMMING

### Throttle Trim

- If the vehicle rolls forward without throttle input, rotate the throttle trim knob slightly left.
- If the vehicle rolls backwards without throttle input, rotate the throttle trim knob slightly right.

### Steering Trim

- If the vehicle tracks right (when viewed from behind), rotate the steering trim knob slightly left.
- If the vehicle tracks left (when viewed from behind), rotate the steering trim knob slightly right.
- Check that the servo saver screw is fully tightened to ensure that your vehicle tracks straight.