

## Single-Speed Installation Instructions

Covers Part #5593X



### Tools Needed

- 1.5 hex driver
- 2.0 hex driver
- 2.5 hex driver
- Small screwdriver
- Needle nose pliers
- Automotive wheel bearing grease

### Remove the transmission and rear suspension assembly

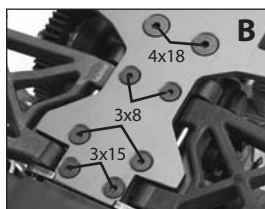
1. Disconnect the brake ball cup from the brake cam lever. Remove the 3x10 shoulder screw and detach the brake bellcrank from the transmission housing.

2. Remove the right dirt guard. Remove the 3x12 button-head screw from the clutch guard. (A)



3. Disconnect the throttle return spring from the clutch guard.

4. Remove the middle battery cover (located in front of the engine) and disconnect the receiver battery.



5. Remove the two 4x18 countersunk machine screws, the two 3x15 countersunk machine screws and the four 3x8 countersunk machine screws from the bottom of the chassis (shown in B).

6. Separate the transmission and rear suspension assembly from the chassis. The clutch guard is keyed into the chassis top plate at the screw point, the assembly slides to the right (see arrow in A).

### Separate the transmission from the rear suspension and battery box

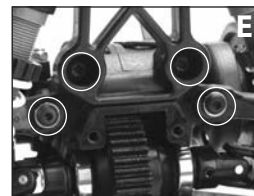
7. Remove the four 2.5x10 cap-head screws and the rear battery box cover to access the two 3x10 button-head screws that secure the rear differential cover to the gearbox halves. (C)



8. Remove the two 3x10 button-head screws from the differential cover and pull the cover and battery box assembly from the transmission. Set the battery box and differential cover assembly aside (D).



9. Remove the two 4x12 button-head screws from the rear shock tower and the two 3x15 button-head screws from the rear camber links (E) to separate the rear suspension system from the transmission.

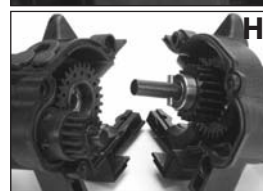


10. Pull the rear suspension pins out of the suspension pin mount (anti-squat block) to separate the entire rear suspension and differential assembly from the transmission. Set the rear suspension assembly aside. (F)



### Disassemble the transmission

11. Remove the three 3x12 button-head screws from the left side of the transmission and the two 3x15 countersunk screws from the suspension pin mount (anti-squat block) (see G). Separate the two gearbox halves to access the two-speed gears. (H)



12. Remove the 5mm E-clip that retains the brake disc on the input shaft. Pull the shaft and the brake disc hub out of the brake disc and pull the brake disc from between the pads. (I)



13. Pull the brake disc hub off of the shaft and remove the brake pin to slide the primary shaft out of the left gearbox half (J). **Note:** Make sure the 5x8x.5mm Teflon® washer is removed with the shaft and not stuck on the bearing.



14. Remove the screw pin from the input gear and slide the input gear off of the shaft. (K)



**Note:** Do not remove the plastic spacer located behind the input gear. The plastic spacer included in the single-speed kit is the *same* size as the two-speed plastic spacer. Only one spacer is used. The extra spacer can be saved for a spare. (L)



15. Remove the two-speed hub/gear assembly from the right half. (M) **Note:** The two-speed hub/gear assembly is not used with the single speed conversion.



Removed Parts

**Install the single speed gear set and reassemble the transmission.**

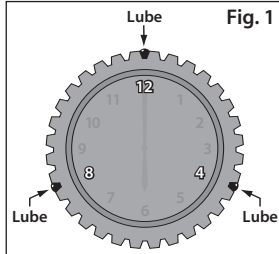
16. Slide the single-speed top gear onto the input shaft and secure it with the same screw pin used for the two-speed top gear. See image (N) for correct orientation.



17. Install the (included) 5mm E-clip into the groove (O) on the single-speed shaft and secure the single-speed primary gear (20/31-T) onto the single-speed shaft with the (included) screw pin. See image O for correct location and orientation.



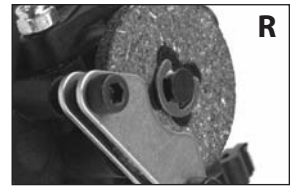
18. Lube the single-speed primary gear on the 31-tooth gear (see O) in three places. Use wheel bearing grease that can be found at an auto parts store. Apply enough grease to fill an entire tooth at each of the three locations. (Fig. 1)



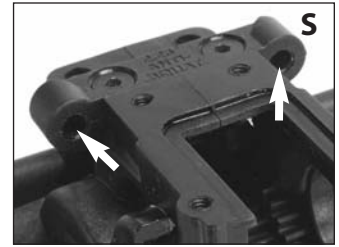
19. Insert the single-speed shaft/gear assembly into the left (brake side) gearbox half as shown in the picture. Insert the brake pin into the hole, and slide the brake disc hub onto the pin, keying it into the slot in the brake disc hub. (P & Q)



20. Move the single-speed shaft to allow room for the brake disc. Place the brake disc between the two brake pads and insert the shaft/brake disc hub assembly into the brake disc. Retain the brake disc on the shaft with the 5mm E-clip. (R)



21. Carefully join the two gearbox halves together and secure them with the three 3x12 button-head screws. Re-attach the suspension pin mount (anti-squat block) to the bottom of the transmission with the two 3x15 countersunk screws. (see S for proper orientation)



22. The transmission is now ready to install back onto the chassis. Use the previous instructions for separating the transmission and rear suspension in reverse order for reassembly.

If you have questions or need technical assistance, call Traxxas at  
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