

Revo 3.3 Forward/Reverse Kit Instructions

Covers Part #5395X

Important Note: This kit does NOT include the OptiDrive system. The truck must come to a complete stop before shifting gears. See below for shifting instructions.



Tools Needed:

- 2.0mm hex wrench
- 2.5mm hex wrench
- Needle nose pliers
- Small flat blade screwdriver
- 5.5mm nut driver

Forward/Reverse Gear Installation:

1. Remove the air filter from the carburetor, and then remove the brake rod from the brake lever by loosening the 3x12mm button head screw far enough to pull the rod guide from the lever. The brake linkage does not need to be removed from the throttle servo (1A).

2. Flip the truck over and remove the four 4x10mm button head screws that attach the center skid plate to the chassis (1B).

3. Next, remove the two screw pins from the front and rear output yokes of the transmission, and then slide the yokes off of the shaft. This will release the transmission from the top of the chassis (1C).

4. Remove the six 3x12 countersunk screws from the transmission (1D) and separate the transmission halves (1E).

5. Remove the forward-only gear shaft assembly from the transmission (1F) and then pull the blue rubber plug (1G) from the front transmission half.

6. Next, place the 22T steel primary gear into the front transmission half followed by the disk spring (see photo 1H for correct orientation).

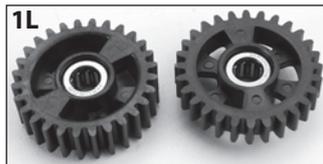
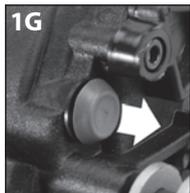
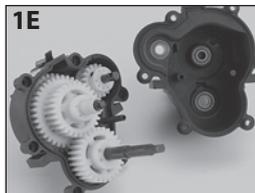
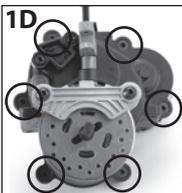
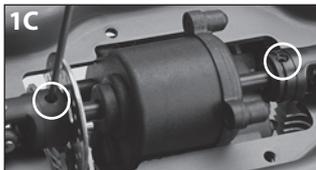
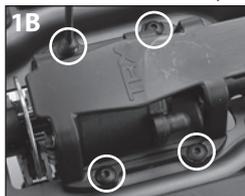
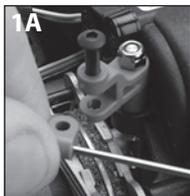
7. Slide the steel reverse idler gear (w/bearing) over the molded plastic post next to the steel primary gear (1I) followed by the plastic idler shaft support (1J).

8. Locate the two black forward and reverse gears along with the two metal needle roller bearings. Press a roller bearing assembly into each gear with the integral marking facing out and away from the gears (1K). Be sure to press the bearing assemblies all the way into each gear until it bottoms out inside the gear (1L).

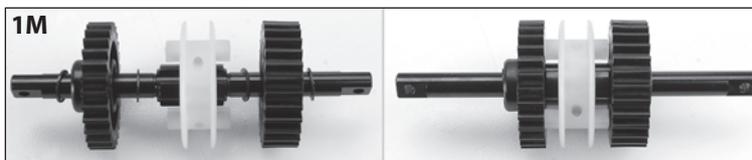
9. Locate the FWD/REV output shaft, dog slider, four 6x8 Teflon washers, and the two black FWD/REV gears with installed roller bearing assemblies. Install these items onto the output shaft using the photo and exploded view for correct



Parts needed for these steps



sequence and orientation (1M). **Note:** The FWD/REV gears must be installed onto the output shaft with the integral markings of the roller bearings facing toward the center of the shaft.



10. Next, locate the shift fork and shaft assembly. Position the shift fork inside and around the groove of the plastic dog slider on the output shaft (1N). **Note:** The shift fork shaft must face toward the black reverse gear (thin gear).



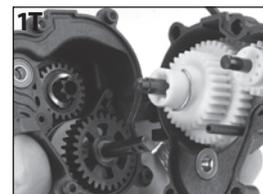
11. Insert the entire assembly into the front transmission half. The output shaft is located through the 6x12mm bearing at the bottom of the case, and the shift fork shaft should slide through the same hole where the blue rubber plug was removed (1O). Remember to position the front brake disc between the brake calipers before sliding the output shaft all the way into the transmission case (1P).



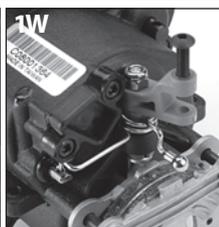
12. Remove the forward-only primary gear from the two-speed shaft by removing the primary pin retainer clip from the gear to access the cross pin (1Q). Push the pin out of the gear and slide the gear off of the shaft (1R). Replace the gear with the included forward/reverse primary gear in the same orientation and secure the gear with the pin and retaining clip (1S).



13. Next, carefully join the two transmission halves together (1T) and secure them with the six 3x12mm countersunk screws (1U).



14. Remove the 3mm locknut from the brake lever and slide the brake lever off of the brake cam shaft (1V). Install the torsion spring onto the brake cam shaft (See photo 1W for correct orientation) followed by the brake lever. Secure the assembly with the 3mm locknut. Insert the bent end of the spring into the hole located in the shift fork.



15. Install the transmission back onto the chassis in reverse order of how it was removed.

Left side radio box installation

1. Remove the 2.5x6mm cap head screw from the throttle servo mount to release the throttle return spring (2A).
2. Remove the two 4x10mm button head screws from the bottom of the throttle servo mount (2B), and then remove the four 3x10mm flat head screws securing the throttle servo. Lift the throttle servo out of the mount and remove the mount from the chassis (2C).

