

Motor Mount Instructions

Installing/replacing the Motor Mount (6460) and Motor Adapter (6461)(if replacing only the Adapter, skip to step 4)

- Remove the Rear Module (A):
 - Remove the two 3x25 countersunk screws from the underside of the Chassis.
 - Remove the two 3x15 countersunk screws from the underside of the Chassis.
 - Remove the two 4x12 button head screws from the Chassis Brace.
 - Pull the rear suspension assembly away from the Chassis.
- Remove the Motor Mount/Cush Drive (A):
 - Remove the 3x8 cap screw and lift the motor cooling duct off the Chassis.
 - Remove the 3x10 button head screws from the chassis brace holding the top of the Motor Mount.
 - Remove the Cush Drive from the Motor Mount.
 - Remove the 4x10 countersunk screws from the chassis holding the bottom of the Motor Mount.
 - Slide the Motor Mount from between the Chassis and Chassis Brace.
 - Remove the 10x15x4 bearing from the Motor Mount.
- Remove RPM Sensor:
 - Remove the 3x6 countersunk screw from the RPM Module and slide the module thru the Motor Mount.
- Remove Motor Adapter and Motor (B):
 - If only replacing the Motor Adapter (6461), remove the right rear shocks upper mounting screw and pivot it ways from the chassis to allow clearance to remove the Motor Adapter/Motor.
 - Remove the 3x8 cap screw and lift the motor cooling duct off the Chassis.
 - Remove the two 3x15 Cap Screws with washers from the Motor Mount.
 - Slide the Motor Adapter Out of the Motor Mount.
 - Go to step 6 if only replacing the Motor Mount (6460).
- Skip this step if replacing only the Motor Adapter (6461):
 - Remove the 4x4 grub screw and remove the Pinion Gear.
 - Remove the two 3x12 countersunk screws and remove the Motor.
 - Remove the mesh-adjustment set screw.
- Replace Motor Mount and/or Motor Adapter as necessary.
- Reassemble all parts as shown above in reverse order, replacing any broken/worn parts as necessary.
- Adjust gear mesh (C):
 - If you did not replace the Motor Adapter (6461), and did not change your pinion or spur gear size, your gear mesh should still be set. However, it is still a good practice to ensure your gear mesh is correctly set with the following steps.
 - Ensure the two 3x15 motor-mount cap screws are loosened to allow movement of the Motor Adapter.
 - Using your 1.5mm hex driver, turn the mesh-adjustment set screw counterclockwise to tighten the gear mesh. If needed, apply gentle pressure to the motor to help the pinion slide closer to the spur gear for a "tighter" gear mesh. Turn the set-screw clockwise to move the pinion away from the spur gear to loosen the gear mesh. When properly set, there should be just a "tick" of free play between the pinion and spur gears.
 - Tighten the two 3x15 motor-mount cap screws to hold the adjustment.

HELPFUL TIPS

A strip of notebook paper can be inserted between the pinion and spur gears to help set gear mesh. Before tightening the motor-mount screws, insert the paper strip between the pinion and spur gear. For quick gear mesh adjustment, seat the gears tightly together and turning approximately $\frac{1}{2}$ to $\frac{3}{4}$ clockwise turns of the mesh-adjustment screw will give a good mesh. Tighten the motor-mount screws. Remove the paper, if used, and you should have the required "tick" of free play.

NOTE

The motor temperature sensor is installed at the factory to provide accurate telemetry data and thermal overload protection for the motor. If you remove the temperature sensor for vehicle maintenance, be certain to reinstall it correctly. The sensor should be installed so the thermistor (the small component at the top of the temperature sensor loop) is on the 'top' of the motor (the side where the wires exit the motor) (D). The sensor should also be centered on the motor. To find the center of the motor, simply count eleven cooling fins from either end of the motor. If the sensor is installed incorrectly, inaccurate or false readings will be sent to the speed control, and your model's performance may be compromised. **Do not operate the XO-1 without the temperature sensor. If the sensor is missing or incorrectly installed, overheating and permanent motor damage may occur. Damage caused by overheating is not covered by the limited warranty.**

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

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