VersaPlanetary

Preparing FTC Motors for the VersaPlanetary
# Preparing FTC Motors for the VersaPlanetary

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Introduction
This guide is meant to provide VersaPlanetary users with instructions on how to prepare various FTC motors for use with the VersaPlanetary.
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AndyMark NeveRest

This section has the instructions for removing the gearhead and pinion from the NeveRest motor. This gearhead and pinion must be removed before the motor can be installed in a VersaPlanetary gearbox.
Step 1: Remove Gearbox from Gearbox Mounting Plate

Some NeveRest motors have a pre-installed gearhead. If your motor does not have a pre-installed gearhead, you can move on to Step 2.

If you have an 'Orbital' gearbox attached, you can use a 2.5mm Hex Key to remove the (4x) M3 Socket Head Cap Screws (SHCS) that attach the gearbox to the gearbox mounting plate.

If using a 'Classic' gearbox, use a #1 Phillips Screwdriver to remove the (3x) M2.5 Phillips Pan Head Screws that attach the gearbox to the gearbox mounting plate.
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Step 2: Remove Gearbox Mounting Plate from NeveRest Motor

Use a 2.5mm Hex Key to remove the (2x) M3 Socket Head Cap Screws that hold the gearbox mounting plate to the NeveRest Motor.
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Step 3: Remove the Pinion from the NeveRest Motor Shaft

Use a pair of Vise Grip Pliers to pull the pinion from the NeveRest Motor Shaft.

*Note:* This will destroy the pinion. Be careful to avoid applying too much force when removing the pinion as this can bend the motor shaft.
Step 4: Attach NeveRest Motor to VersaPlanetary

Your NeveRest Motor is now ready to be installed into your VersaPlanetary.
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REV Robotics HD Hex Motor

This section has the instructions for removing the gearhead and pinion from the REV Robotics HD Hex Motor. This gearhead and pinion must be removed before the motor can be installed in a VersaPlanetary gearbox.
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Step 1: Remove Gearbox from HD Hex Motor
The HD Hex Motor has a gearhead attached to the motor. This needs to be removed for the motor to connect to a VersaPlanetary.

Use a #1 Phillips Screwdriver to remove the (3x) M2.5 Phillips Pan Head screws that attach the gearhead to the gearhead mounting plate.
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Step 2: Remove Gearbox Mounting Plate from HD Hex Motor
Use a #1 Phillips Screwdriver to remove the (2x) M3 Phillips Pan Head Screws that hold the gearbox mounting plate to the HD Hex Motor.
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Step 3: Remove the Pinion from the HD Hex Motor Shaft
Use a pair of Vise Grip Pliers to pull the pinion from the HD Hex Motor Shaft.

**Note:** This will destroy the pinion. Be careful to avoid applying too much force when removing the pinion as this can bend the motor shaft.
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Step 4: Attach the HD Hex Motor to VersaPlanetary
Your HD Hex Motor is now ready to be installed into your VersaPlanetary.
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Tetrix TorqueNADO Motor

This section has the instructions for removing the gearhead and pinion from the Tetrix TorqueNADO. This gearhead and pinion must be removed before the motor can be installed in a VersaPlanetary gearbox.
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Step 1: Remove The Gearbox From The TorqueNADO Motor

Use a #1 Phillips Screwdriver to remove the (3x) screws on the face of the gearbox.
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Step 2: Remove The Gearbox Mounting Plate From The TorqueNADO Motor

Use a #2 Phillips Screwdriver to remove the [2x] screws on the face of the motor.
Step 3: Remove the Pinion from the TorqueNADO Motor

Use a pair of Vise Grip Pliers to pull the pinion from the TorqueNADO Motor Shaft.

**Note:** This will destroy the pinion. Be careful to avoid applying too much force when removing the pinion as this can bend the motor shaft.
Step 4: Attach the TorqueNADO Motor to VersaPlanetary

Your TorqueNADO Motor is now ready to be installed into your VersaPlanetary.
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Support

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