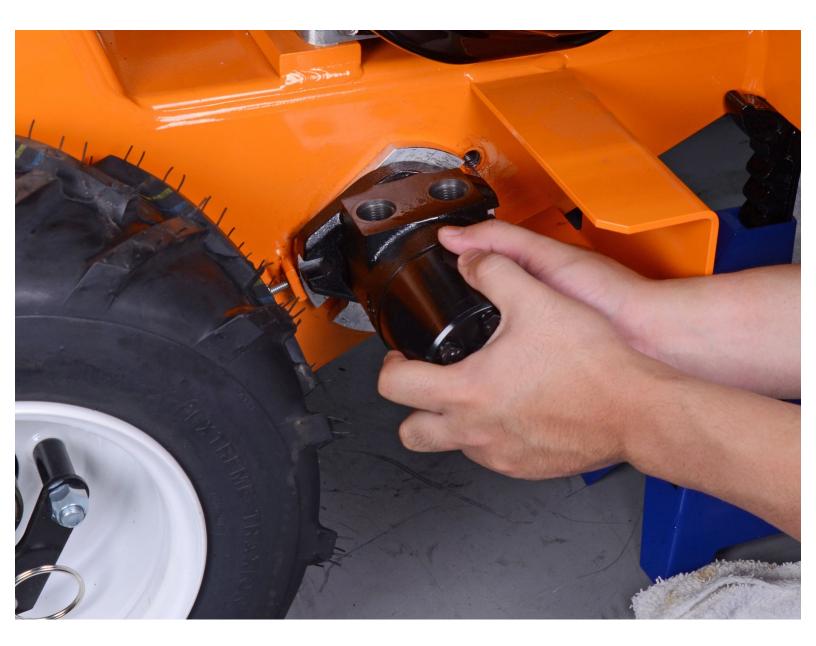


Barreto Tillers E1320HTRLR 2016 Wheel Drive Motor Replacement

Guide to remove and replace the wheel drive motor on the Barreto Tiller E1320 2016.

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INTRODUCTION

This guide shows how to remove and replace the wheel drive motor on the Barreto Tiller E1320 2016.

TOOLS:

- 14mm Hex key (1)
- Fluid Extractor (1)
- 9/16" socket (1)
- 3/8" Drive Ratchet (1)
- 3/8" Socket (1)
- Shop Towels or Rags (1)
- Chisel Scraper (1)
- Oil Drain Pan (1)
- Adjustable Wrench (1)
- Paper Towels (1)
- 7/16" Wrench (1)
- 3/8" Breaker Bar (1)
- Jack Stands (1)

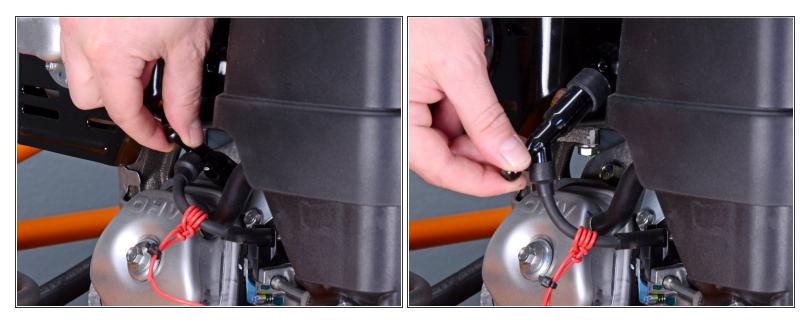
Optional

• 5/32 Hex Key (1)

PARTS:

- Barreto Wheel Drive Motor With Key 04003-F (1)
- Barreto Sprocket, #50 10 Tooth 02014
- (1)
- Barreto Wheel Motor Spacer 02004 (1)

Step 1 — Disconnect the spark plug wire



A Before you begin, ensure that the engine is powered down and cool to the touch.

• Grab the plastic housing at the end of the spark plug wire and pull firmly to disconnect it.

Step 2 — Flip the engine switch to the off position



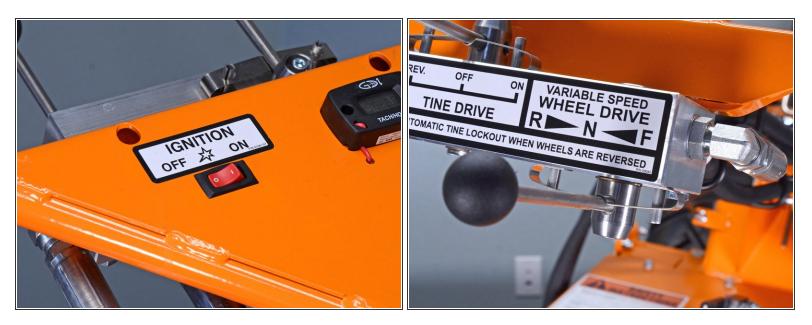
• Flip the red engine ON/OFF switch to the **OFF** position.

Step 3 — Close the fuel valve



• Flip the fuel valve lever to the **OFF** position.

Step 4 — Turn off the ignition



- Flip the ignition switch to the **OFF** position.
- Ensure the wheel drive control lever is set to the **neutral** position.

Step 5 — Allow the wheels to freewheel



- Pull the locking pin out and rotate it 90° to unlock the right wheel from the hub.
- Repeat for the left wheel.

Step 6 — Add wheel chocks



 Insert wheel chocks underneath each wheel to keep the device stationary during disassembly.

Step 7 — Remove the fill plug



Use a 14 mm hex key to remove the tank fill plug.

Step 8 — Remove the fluid



 Use a siphon to pump out as much fluid as you're able to, totaling about 14 gallons.

Step 9 — Remove the breather tube from the engine guard

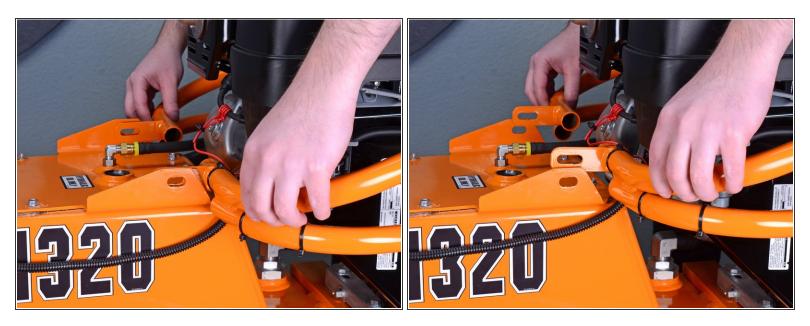


• Remove the end of the tank breather tube from inside the engine guard structural pipe.

Step 10 — Tilt up the engine guard



Use a 9/16 inch socket and wrench to remove the two bolts and accompanying nuts securing the engine guard to the tank lid, one on each side.



• Lift the engine guard up above the tank lid flanges.



Step 12 — Remove the tank lid bolts

• Use a 3/8 inch socket to remove the ten bolts securing the tank lid.

Step 13 — Clean the lid



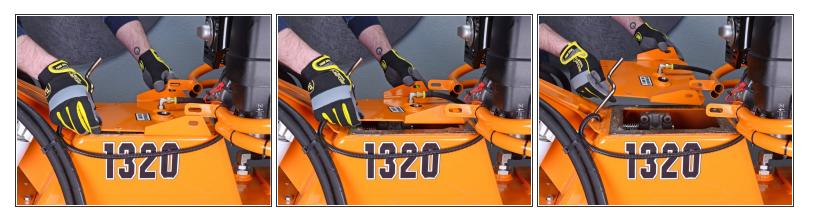
 Use a shop towel to clean and remove any remnants of silicone gasket material from the top of the lid and surrounding areas.

(i) Try to prevent any silicone remnants from falling into the hydraulic fluid tank.

Step 14 — Remove the tank lid



• Lift up on the lid to break the seal around the perimeter of the gasket.



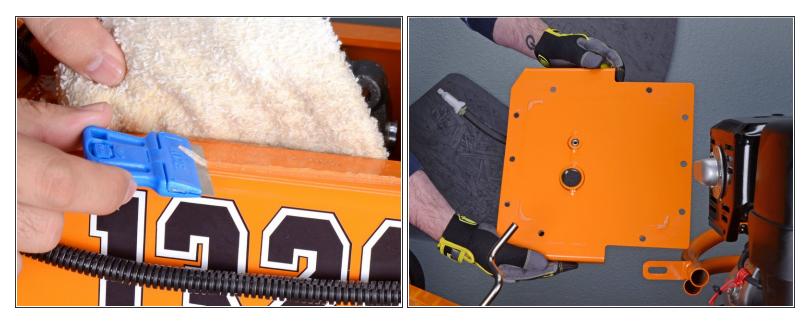
• Lift the tank lid out and around the engine guard mounting tabs to remove it.

Step 16 — Remove the old gasket



- (i) When peeling up the gasket, hold a shop towel underneath the lip of the tank to prevent any silicone remnants from falling in.
- Peel the gasket up from around the perimeter of the tank.
- Remove the gasket.

Step 17 — Reinstallation tip



Before reinstallation, remove all remnants of old silicone gasket from both the rim of the fluid tank as well as the tank's lid.

Step 18 — Place down an oil drain pan



 Place an oil drain pan underneath the wheel drive motor to catch hydraulic fluid that will spill out during this procedure.

Step 19 — Remove the fluid hoses



• Use an adjustable wrench to loosen the nut securing the lower fluid hose to the fitting on the wheel motor.

Step 20



- Remove the lower fluid hose from the wheel motor.
- Allow residual fluid in the hose to drip into the drain pan underneath the motor.



 Use an adjustable wrench to loosen the nut securing the upper fluid hose to the fitting on the wheel motor.

Step 22

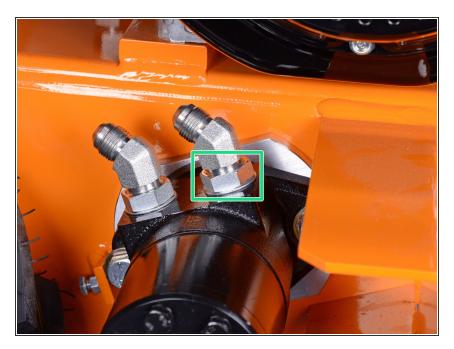


- Remove the upper fluid hose from the wheel motor.
- Allow residual fluid in the hose to drip into the drain pan underneath the motor.



 Place paper towels into the hose openings to block residual fluid from dripping as you continue the procedure.

Step 24 — Remove the fittings



 Use an adjustable wrench to loosen the nut locking the upper hose fitting to the wheel motor.



• Use an adjustable wrench on the fitting body to unthread it from the wheel motor.

Step 26



• Remove the upper fitting.



 Use an adjustable wrench to loosen the nut locking the lower hose fitting to the wheel motor.

Step 28

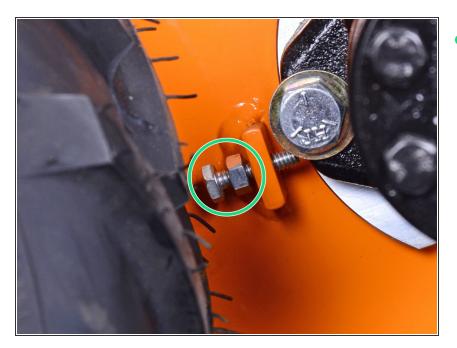


• Use an adjustable wrench on the fitting body to unthread it from the wheel motor.



• Remove the lower fitting.

Step 30 — Loosen the tensioner bolt



- Use a 7/16 inch wrench to loosen the tensioner bolt's lock nut.
 - Back the tensioner bolt out about 1/2 inch.
 - Don't fully remove the tensioner bolt.

Step 31 — Remove the motor bolts



Use a 3/4 inch socket and breaker bar to remove the two bolts securing the wheel drive motor to the frame.

Step 32 — Reinstallation tip



- During reinstallation, tighten the tensioner bolt down onto the motor housing to help align the motor with the spacer.
 - Tighten down both motor mounting bolts until there is no gap between the spacer and the frame or between the motor and the spacer.

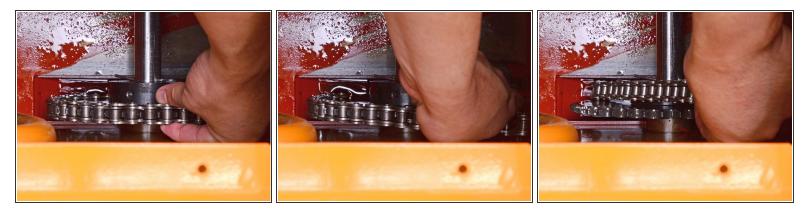
(i) Ensure the motor is aligned with the spacer before tightening.

Step 33 — Give the chain slack



 With the motor loose, rotate it 90° counterclockwise and push it as far left as it will go to give the drive chain some slack.

Step 34 — Remove the chain from both gears



- Reaching in from the top of the tank, lift the drive chain up and off of the axle gear.
 - (i) If necessary, have another person hold the motor <u>against the left side of the housing</u> while the chain is being removed.
- Remove the chain from the wheel drive motor sprocket.

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Step 35 — Remove the motor assembly



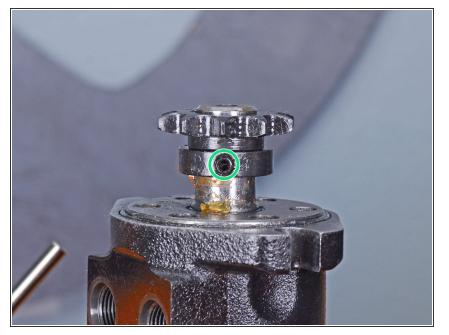
• Remove the wheel drive motor, spacer, and sprocket assembly.

Step 36 — Remove the spacer



• Remove the wheel motor spacer.

Step 37 — Loosen the sprocket set screw



 Use a 5/32 inch hex key to loosen the set screw securing the sprocket to the wheel motor shaft.

Step 38 — Remove the sprocket



- Remove the sprocket from the wheel motor shaft.
- Reinstallation tip:
 - Align the top face of the sprocket with the end of the shaft's chamfer.
 - Only the motor remains.

To reassemble your device, follow these instructions in reverse order.