

Service Advisory: Evolution Series Impulse Drive Gearbox Seal Leak MGET10-7202022US

July 19th, 2022- This Service Advisory is to notify our dealer network of a field issue being reported on Evolution series units (EVO, Rival, Vanquish) with build dates of November '21 – MAY '22. This issue is specifically regarding the Impulse Drive Gearbox leaking oil around the main hub ring. This is an arbitrary issue. If the mower has run in the field for 10+hrs and has not experienced a leak, this advisory likely does not pertain. Please see below.

What is the issue?: Impulse Drive Gearbox leaking oil around the main hub seal with less than 10hrs of use

When: Any stock unit or unit in the field with a build date of 11/21-05/22 may be affected. **Contact service with questions regarding units OUTSIDE of the dates provided**

What should you do?: Visually inspect the inside hub of each wheel, on each unit in question. Inspect the Inside hub lip of the gearbox for oil residue.

IF OIL IS FOUND - Please contact MeanGreen Service (servicecenterinfo@meangreenproducts.com) with the serial number of the unit along with supplied pictures of the supplier tags located on the gearbox (removal of the wheel is required to access stickers- see **figure01**).

Once MeanGreen Service has approved the unit for repair, please place a PO for Part # **MGCORE363**. The part will be purchased as a core charge and will be swapped out for a new gearbox. The leaking unit(s) is **REQUIRED** to be return to MeanGreen. A return label will be issued upon request. (Send PO to : Parts@Meangreenproducts.com)



Figure01

Example Pictures:

Leaking Hub Seal Location



Impulse Drive Gearbox Replacement Instructions:

Step 1: Turn the main RED power switch to the “OFF” position

Step 2: Jack the rear of the mower up and rest on jack stands, verify unit is sturdy on the stands

Step 3: Remove the wheel from the Gearbox

Step 4: Remove the green can/drive from mower by unbolting the 3/8 bolts (qty 8-10 pending model)

- *****CAUTION!!***** These complete units weight upwards of 70lbs. Place a hydraulic jack under the hub or use an engine hoist, prior to removal of the last bolt, to safely lower the unit to the ground. See [Figure-02](#) for Reference points for hydraulic jack.
- There are 4 through-bolts (bottom section of the can) and the remaining are installed with Cage-Nuts

Step 5: Once the drive is safely removed, Remove the 3 Allen head bolts holding the motor to the gearbox (See [Figure-03](#))

Step 6: Remove Motor from gearbox - ****NOTE THE ORIENTATION OF THE MOTOR PRIOR TO REMOVAL!!****

- ***** CAUTION-** The drive shaft and SPRING will come out with the motor, make sure not to lose these parts!! ******* The spring goes into the motor before the shaft, see video on the dealer portal for further assistance - <https://youtu.be/JES5eKVsMm4>
- Removal of wires is not required but if you do remove them, NOTE THE ORIENTATION PRIOR TO REMOVAL!!!

Step 7: Unbolt the Gearbox from the green drive can (See [Figure-04](#))

Step 8: Install new gearbox to Green Drive Can

- Torque bolts to **25 LB.-FT**

Step 9: Install motor onto Gearbox

- Install Drive Shaft into Gearbox first, Install Spring into Motor before sliding onto drive shaft, Use a small dab of grease to hold spring inside motor slot
- Verify motor is FULLY seated in the drive before tightening down the 3 mounting bolts. It might take some wiggling and turning until it fully seats in.
- Install to **10-25 LB-FT** ****USE RED LOCTITE ON THREADS****

Impulse Drive Gearbox Replacement Instructions (CONTINUED):

Step 10: Using an engine hoist or Hydraulic Jack, raise the assembly to the side of the unit, align, and install using factory hardware.

- Make sure you are aligned properly before installing bolt. The cage-nuts can cross-thread, please verify proper installation before torquing bolt.

- Torque bolts to **35 LB.-FT**

Step 11: Install wheel

- Torque to **70 LB.-FT**

Step 12: Turn red main power switch to “ON” and test drive mower on jack stands

Questions/Assistance : Please email servicecenterinfo@meangreenproducts.com or call 513-738-4736 - ext. 3 to connect with our service department.

Service Pictures:

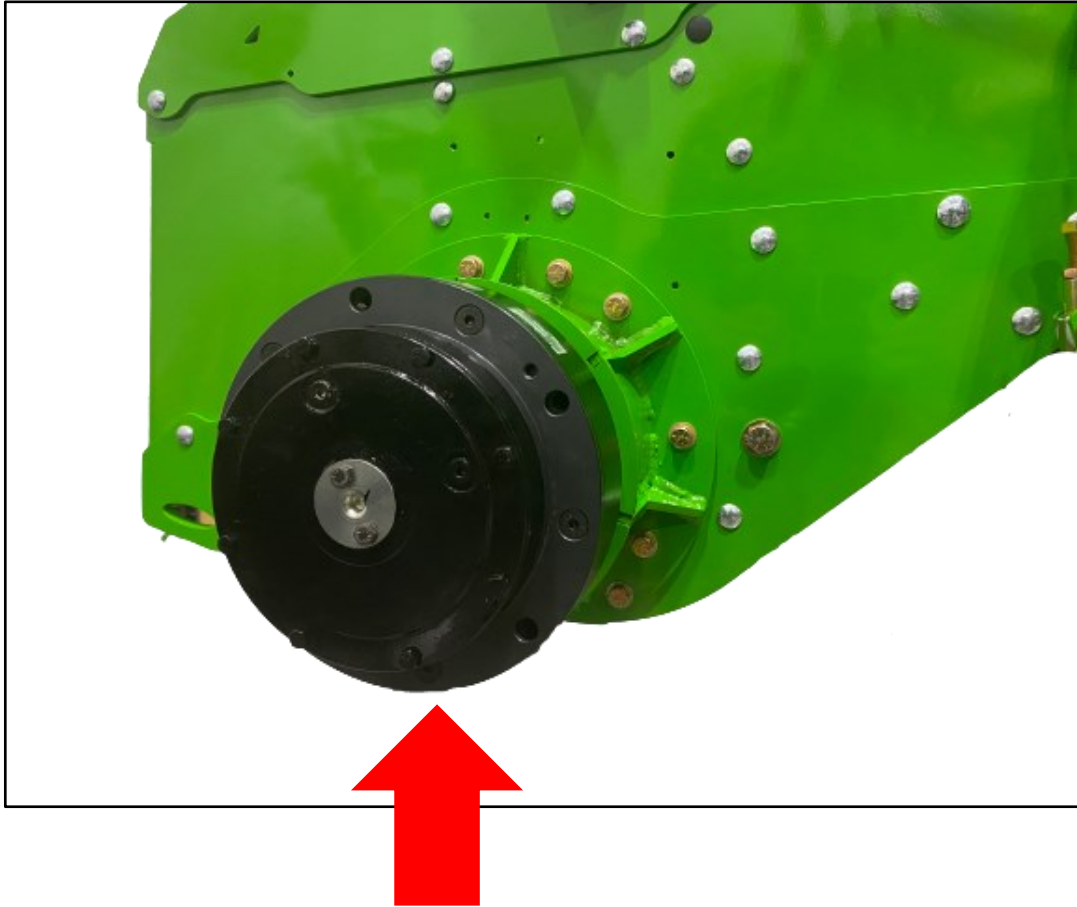


Figure-02: Place a Hydraulic Jack under this area of gearbox OR use an engine hoist with a strap around the gearbox.

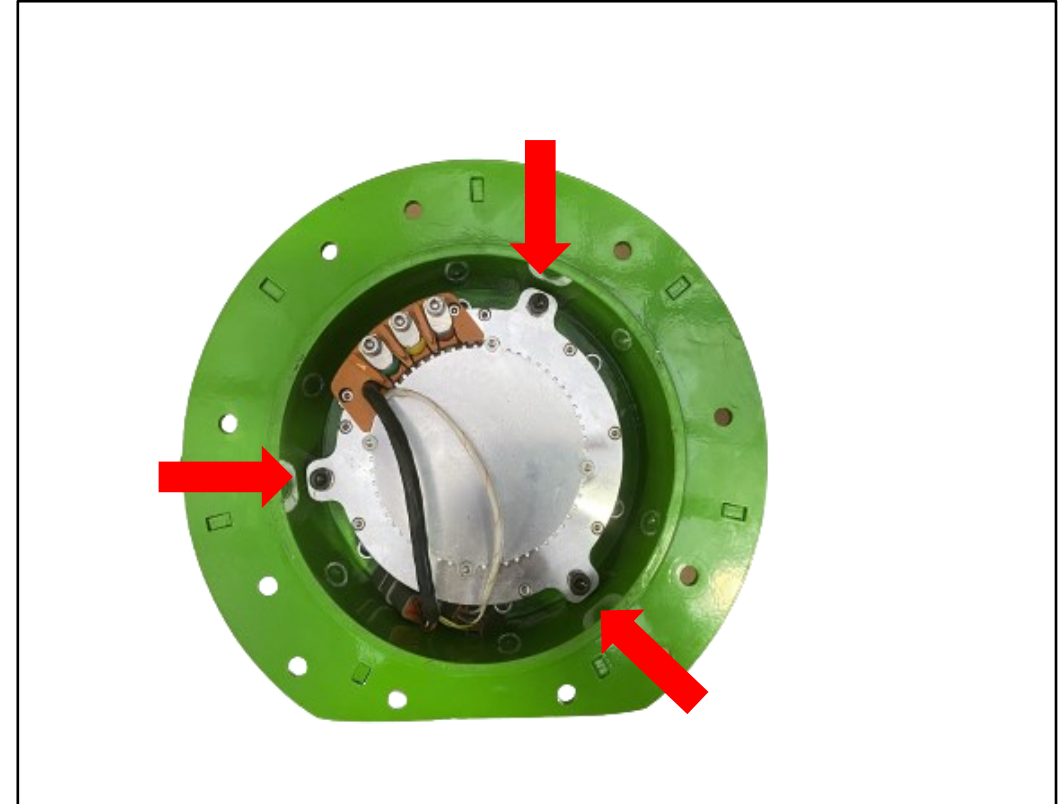


Figure-03: Remove the (3) Allen head bolts holding the motor to the gearbox. Remove Motor from Gearbox.

Service Pictures:

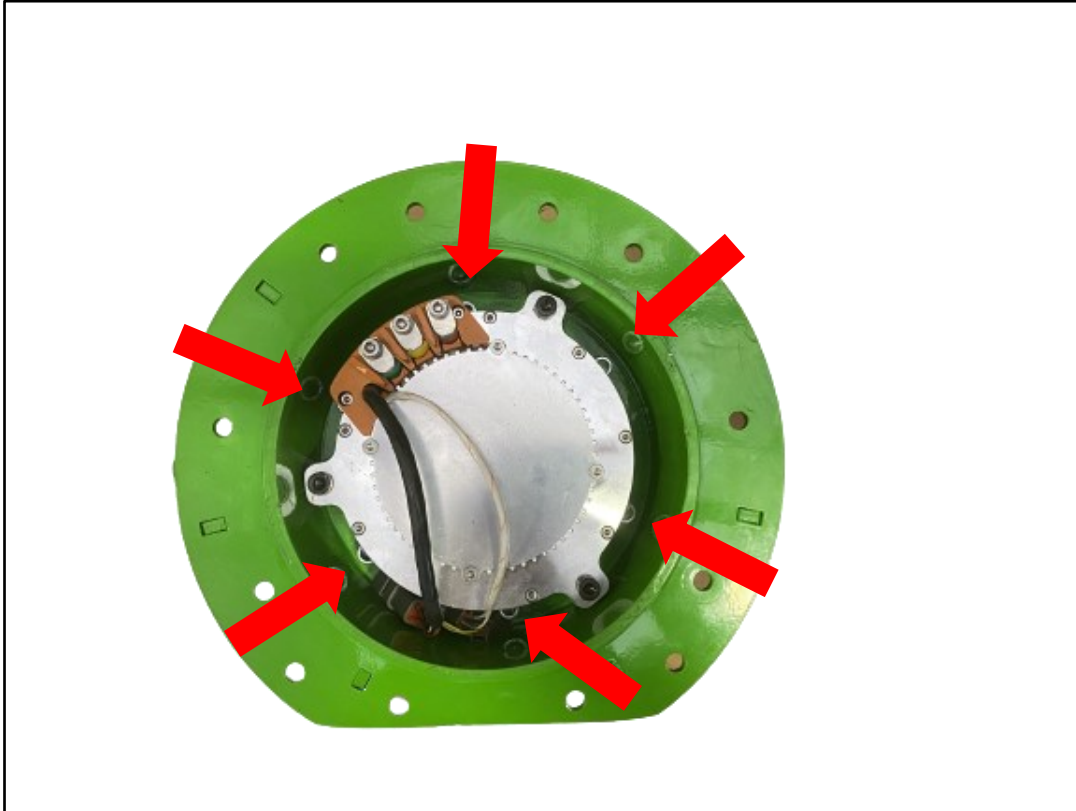


Figure-04: Remove the (6) Allen-Head Bolts holding the gearbox to the green can. This will be easier to access once the motor is removed in previous step.



July 19th, 2022
MeanGreen Products
4404 Hamilton Cleves Rd.
Hamilton, Ohio 45013
(513) 738- 4736

Warranty Information:

There is a (30) day limit on THIS warranty claim. If the part is not received within (30) days of completion of work, and the claim has not been filed, you will be charged full amount for the gearbox and labor will NOT be covered.

Allotted Time: 1.5 hours (PER Gearbox)

Part # - **MGCORE363**

Parts Information – The leaking unit(s) is to be returned to MeanGreen. The warranty claim will NOT be processed until the leaking unit(s) is received.

Once work has been completed, submit warranty claim(s) on Genservice using the part # and labor amount above. Once you have submitted the claim, send an email to - Warranty@MeanGreenProducts.com with the claim number, weight and dimensions of the box(s) to be returned. We will then send a return label via UPS. **Any gearboxes being returned that are damaged due to packaging will be declined- PLEASE USE EXTRA CARE WHILE PACKING**

There is a (30) day limit on THIS warranty claim. If the part is not received within (30) days of completion of work, and the claim has not been filed, you will be charged full amount for the gearbox and labor will NOT be covered.

Contact Warranty@MeanGreenProducts.com with questions!