

## **Troy-Bilt Horse Engine Removal And Installation**

<http://manuals.mtdproducts.com/manuals/mnl20h-8-4.pdf>

Note: Check Your Belts, Reverse Disc, and Throttle Cable  
Order Replacements If Needed!

### **\* Installation Instructions \***

1. Measure and record the distance between the face of the engine drive pulley and the back of the cast iron engine mount. ( See Illustration # 1)
2. Remove and discard the 3/8" bolt from reverse disc.
3. Remove reverse disc and pulley, Pay close attention and do not lose shims between pulley and crankshaft, you will need them for reassembly.
4. Remove (4) 5/16" bolts that secure engine to the engine mount, Remove engine mount, Clean bolts and engine mount.
5. Install engine mount using the (4) 5/16" bolts, We suggest you use a drop of blue locktite on the clean threads.

### **\* CAUTION DO NOT OVER TIGHTEN!!! \***

6. Install shims onto crankshaft, install pulley, Check measurements, add or remove shims to obtain correct measurement recorded in step 1. After correct measurement has been obtained, reinstall square key. Note: Some filing and fitting may be required. Install reverse disc using the 5/16" bolt, flat washer, and lock washer supplied in the kit.

### **\* Throttle Cable Installation for Kohler Engine Only \***

#### **\* For Briggs & Stratton Engine Go To Low Oil Sensor Instructions \***

If you wish to use the throttle control on the handle of your tiller, the throttle control on your new engine will need to be adjusted, If you choose to use the control on the front of engine, disregard the following instructions!

1. Locate the #10 nut on throttle control arm and loosen a small amount until the throttle control moves with little effort.
2. From the back of the engine, Route the throttle cable from the left side through the clamp and install Z bend into smallest hole on back of throttle control arm, adjust to idle position, tighten clamp.

**\* Low Oil Sensor \***

**Your New Kohler Engine Or Briggs & Stratton Engine is equipped with a low oil shutoff, To avoid engine shutting down at tilling depth, follow these instructions!**

**NOTICE:**

**WARRANTY MAY BE VOIDED IF LOW OIL SENSOR IS DISCONNECTED!!**

- 1. Fill the engine to the specified oil level as per your owners manual.**
- 2. Tip tiller forward, engine toward the ground, using a block under the tines, to raise tines app. 8" off the ground. (See Illustration # 2)**
- 3. With tiller in this position, Fill the engine to the specified oil level, usually an additional 2 to 6 ounces, install oil fill plug. This will allow the oil sensor to work properly and register the proper oil level at tilling depth.**

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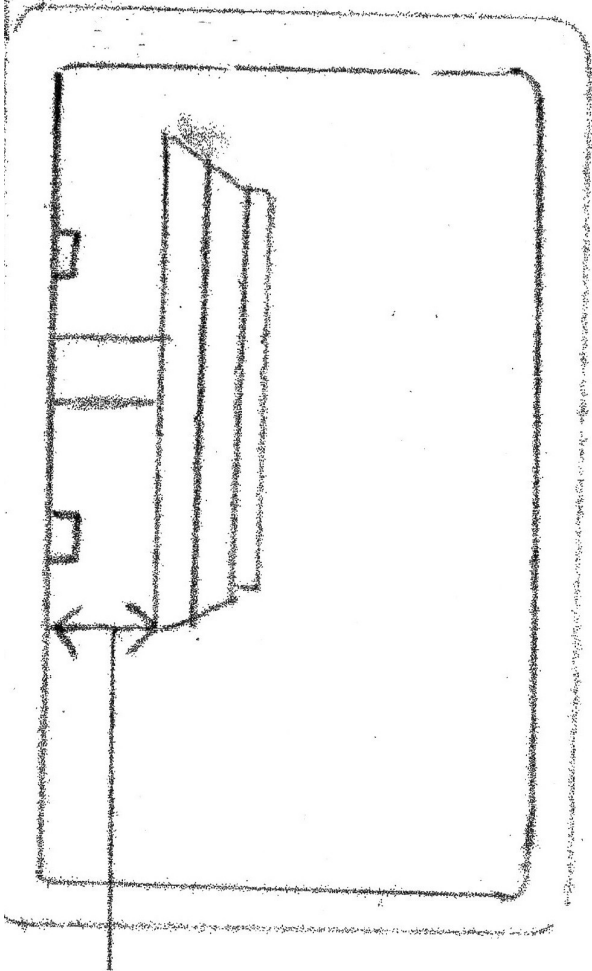
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**Illustration # 1**

**Engine Mount**



**Measure Distance Between Pulley  
And Back Of Engine Mount**

**Illustration # 2**



**Raise Tines 8" Off Ground**