



# Tiller Bumper/Guard

OEM-290-256 / 290-256-081

## Introduction

Thank you for purchasing this Bumper/Guard for your tiller. The Bumper/Guard is designed to protect the engine and tiller from costly impact damage.

## Kit Contents (see Fig. 1)

Ref.	Part No.	Description	Qty.
1	1904540	Bumper, Front .....	1
2	1904539	Bumper, Side .....	1
3	1111608	Hex Hd. Screw, 5/16-18 x 2-1/2....	4
4	1100799	Hex Hd. Screw, 5/16-18 x 1-1/2....	1
5	1100242	Washer, Spring Lock, 5/16.....	5
6	1186230	Hex Nut, 5/16-18 ....	5

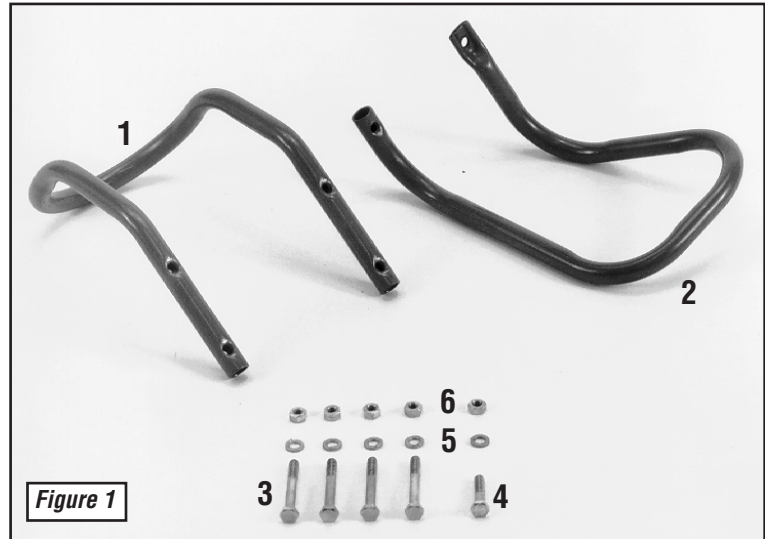


Figure 1

## CAUTION

### TO PREVENT INJURY FROM MOVING PARTS OR HOT SURFACES:

- Stop the engine and wait for all moving parts to stop.
- Disconnect the spark plug wire from the spark plug and allow the muffler to cool.

## Preparation

- Stop the engine, wait for all moving parts to stop and disconnect the spark plug wire. Allow the muffler to cool.
- You will need two 1/2-in. wrenches.
- References to “Left” and “Right” are given from the operator’s position behind the handlebars.
- The engine shown in the figures may not match the engine on your tiller.

## Installation Steps

1. On the right side (muffler side) of the engine, position the rear leg of the side bumper on the top edge of the engine support bracket as shown in Fig. 2. Then insert the new 1-1/2" long screw (A) up through the holes in the support bracket and the rear leg. Add a new spring lockwasher and hex nut and tighten finger-tight.

NOTE: If engine is equipped with a throttle cable, route the cable above the legs of the bumper.

2. Do not attach the front leg of the bumper at this time, but do check that the mounting hole in the front leg is aligned with the front hole in the engine support bracket (where front of engine is attached to support bracket). If so, go on to Step 3. If not, move the rear leg to another hole (if so equipped) in the support bracket and re-check the alignment.

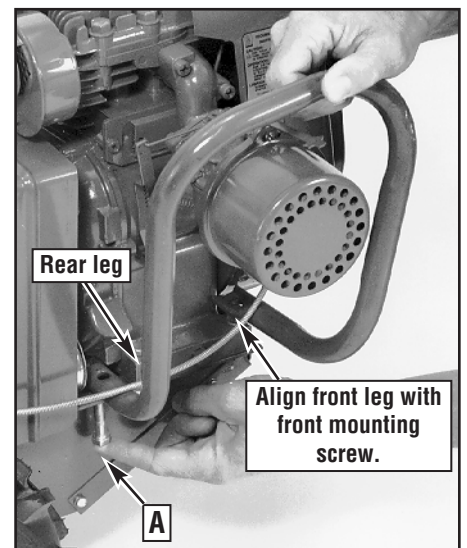


Figure 2: Loosely attach rear leg of side bumper to top of engine support bracket.

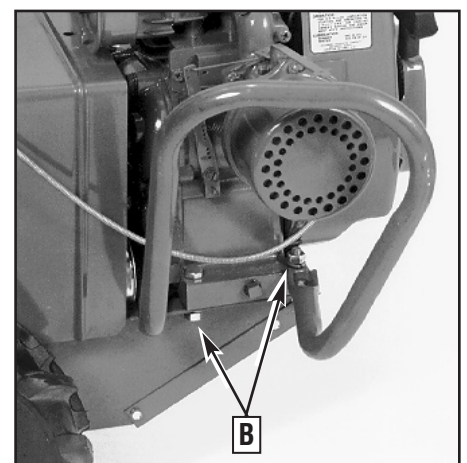


Figure 3: Remove engine mounting screws (B) from right side.

**CAUTION**

**TO PREVENT PERSONAL INJURY OR DAMAGE TO ENGINE:**

When the four engine mounting screws are removed in Step 3, the engine will not be secured to the tiller. Be very careful not to let the engine fall off the tiller!

3. Observe the "CAUTION" statement above and remove the four screws (B, Figures 3 and 4), lock washers and hex nuts that secure the engine to the left and right side engine support brackets. Do not save the hardware.

**IMPORTANT:** On some units, there are more than two engine mounting holes in the left and right side engine support brackets (see Fig. 8). If the support brackets on your unit have more than two mounting holes, then be sure to note which holes are used to mount the engine. *It is critical that the same holes be used when installing the bumper/guard and engine on the support brackets.*

4. Position the two legs of the front bumper underneath the left and right side engine support brackets (see Figure 5). On the right side of the engine, align the hole in the end of the bumper leg with the holes in the rear of the engine base and the engine support bracket. Insert a new 2-1/2-in. long screw (C, Fig. 5) down through the holes and loosely add a spring lock washer and hex nut.
5. While still on the right side of the engine, insert a new 2-1/2-in. long screw (D, Fig. 6) up through the holes in the bumper leg, the engine support bracket and the engine base. Loosely add a spring lock washer and hex nut.
6. On the left side of the engine, insert two new 2-1/2-in. long screws (E, Fig. 7) up through the holes in the bumper leg, the engine support bracket and the engine base. Add spring lock washers and hex nuts and tighten securely.
7. Tighten all of the bumper/guard mounting screws securely.

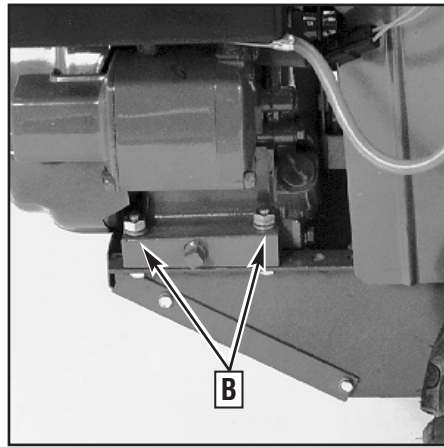


Figure 4: Remove engine mounting screws (B) from left side of engine.

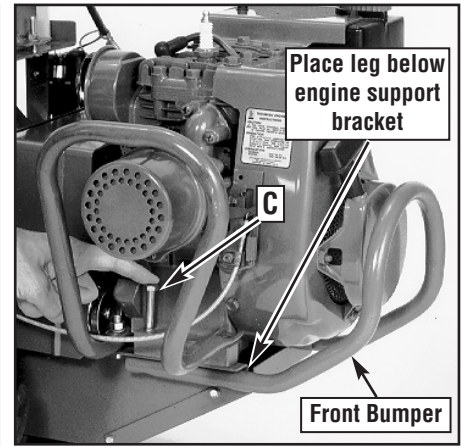


Figure 5: Insert screw (C) down through engine base, engine support bracket and leg of front bumper. Loosely add a lockwasher and nut.

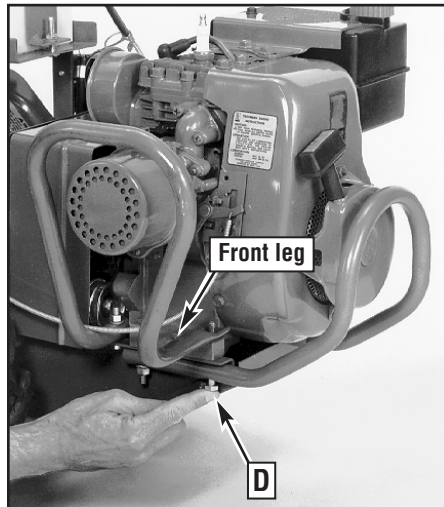


Figure 6: Insert screw (D) up through front bumper, engine support bracket, engine base and front leg of side bumper. Loosely add a lock washer and nut.

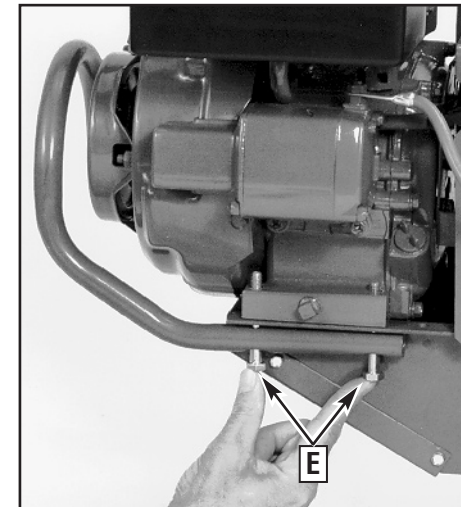


Figure 7: Install screws (E), lock washers and nuts on right side. Tighten securely. Then tighten all remaining screws.

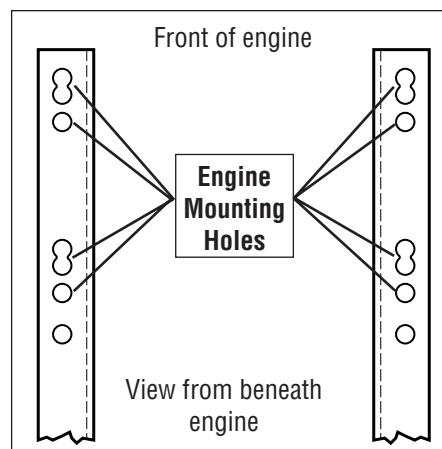


Figure 8: If left and right side engine support brackets have multiple holes, be sure to note which holes are used to mount the engine. Use the same holes when installing the engine mounting screws.

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