

# Zero Turn Radius Mowers

All models

## Setup Instructions

### Loose Parts

Use the chart below to verify that all parts have been shipped.

| Procedure | Description                     | Qty. | Use                                   |
|-----------|---------------------------------|------|---------------------------------------|
| <b>7</b>  | Deflector assembly              | 1    | Install the discharge deflector.      |
|           | Rod                             | 1    |                                       |
|           | Spring                          | 1    |                                       |
|           | Cotter pin                      | 1    |                                       |
| <b>8</b>  | Side discharge baffle           | 1    | Convert to side discharge (optional). |
|           | Carriage bolt (5/16 x 3/4 inch) | 2    |                                       |
|           | Hex-head bolt (5/16 x 3/4 inch) | 2    |                                       |
|           | Lock nut (5/16 inch)            | 4    |                                       |
|           | Hole cover decal                | 3    |                                       |
| <b>9</b>  | Ignition Key                    | 1    | Complete the setup.                   |
|           | Hose coupling                   | 1    |                                       |
|           | Operator's Manual               | 1    |                                       |
|           | Engine Operator's Manual        | 1    |                                       |
|           | Operator Training Material      | 1    |                                       |

**Note:** Determine the left and right sides of the machine from the normal operating position.

# 1

## Checking Tire Pressure

### No Parts Required

#### Procedure

1. Check the tire pressure in the drive tires. Proper inflation for drive tires is 13 psi (90 kPa).
2. Adjust if necessary.

# 2

## Fastening the Seat

### No Parts Required

#### Procedure

1. Remove the nut and bolt from the loose end of the lanyard.

2. Tilt seat downward and align lanyard to the hole in the side of the seat (see Figure 1).
3. Install bolt and nut. Tighten bolt and then loosen nut 1/4-1/2 turn so that lanyard end rotates freely. Verify that lanyard is free to rotate on both ends so that it pulls straight while supporting the seat..

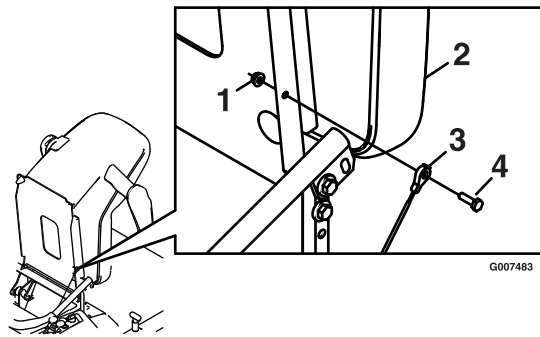


Figure 1

1. Seat assembly
2. Seat track studs
3. 5/16-18 inch whizlock nuts
4. 5/16-18 inch whizlock nuts

# 3

## Servicing the Battery

### No Parts Required

### Procedure



Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Wash hands after handling.

**Important:** The machine is shipped with a filled lead acid battery.

1. Tilt seat up to gain access to the battery.



Charging the battery may produce explosive gasses. Battery gasses can explode causing serious injury.

- Keep sparks, flames, or cigarettes away from battery.
- Ventilate when charging or using battery in an enclosed space.
- Make sure venting path of battery is always open once battery is filled with acid.

2. Check the voltage of the battery with a digital voltmeter. Locate the voltage reading of the battery

in the table below and charge the battery for the recommended time interval to bring the charge up to a full charge of 12.6 volts or greater.

**Important:** Make sure the negative battery cables are disconnected and the battery charger used for charging the battery has an output of 16 volts and 7 amps or less to avoid damaging the battery (see chart for recommended charger settings).

| Voltage Reading | Percent Charge | Maximum Charger Settings | Charging Interval    |
|-----------------|----------------|--------------------------|----------------------|
| 12.6 or greater | 100%           | 16 volts/7 amps          | No Charging Required |
| 12.4 – 12.6     | 75–100%        | 16 volts/7 amps          | 30 Minutes           |
| 12.2 – 12.4     | 50–75%         | 16 volts/7 amps          | 1 Hour               |
| 12.0–12.2       | 25–50%         | 14.4 volts/4 amps        | 2 Hours              |
| 11.7–12.0       | 0–25%          | 14.4 volts/4 amps        | 3 Hours              |
| 11.7 or less    | 0%             | 14.4 volts/2 amps        | 6 Hours or More      |



If the ignition is in the “ON” position there is potential for sparks and engagement of components. Sparks could cause an explosion or moving parts could accidentally engage causing personal injury

Be sure ignition switch is in the “OFF” position before charging the battery.

3. Connect the negative battery cables.

**Note:** If the positive cable is also disconnected, connect the **positive (red) cable** to the positive battery terminal **first**, then the negative (black) cable to the negative battery terminal. Slip insulator boot over the positive terminal.

**Note:** If time does not permit charging the battery, or if charging equipment is not available, connect the negative battery cables and run the vehicle continuously for 20 to 30 minutes to sufficiently charge the battery.

# 4

## Installing the Motion Control Levers

### No Parts Required

### Procedure

1. Remove the bottom 3/8 x 1 inch bolt and spring disc washer from the control arm shaft. Loosen the upper 3/8 x 1 inch bolt and spring disc washer in the control lever so that the lever can rotate Figure 2.
2. Position the lever so the bottom hole aligns with hole in the control arm shaft. Install spring disc washer and bolt.
3. Repeat on opposite side of unit.

**Note:** There are two lever height options available. Place the levers in the top two holes to increase height of the levers, or in the bottom two holes to decrease the height of the levers.

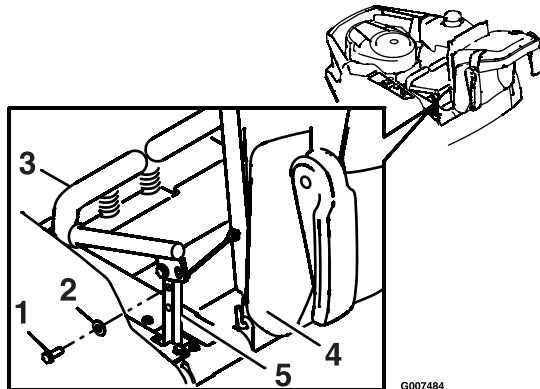


Figure 2

- |                         |                      |
|-------------------------|----------------------|
| 1. Bolt                 | 4. Seat              |
| 2. Spring disc washer   | 5. Control arm shaft |
| 3. Motion control lever |                      |

4. Align the levers front/rear position. With the levers in the neutral position, loosen the hardware and adjust the levers sliding and/or tilting the lever(s) forward or backward until properly aligned and tighten hardware (Figure 3).

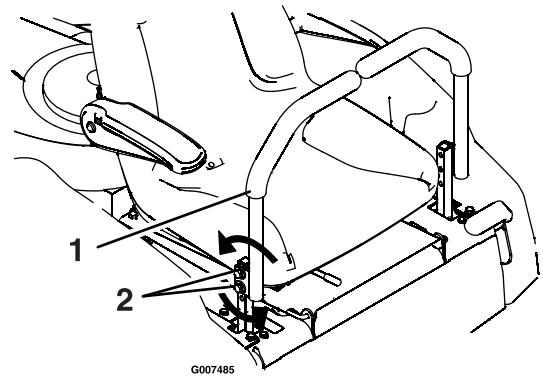


Figure 3

- |                         |             |
|-------------------------|-------------|
| 1. Motion control lever | 2. Hardware |
|-------------------------|-------------|

5. If the ends of the levers hit against each other, while in the drive position (levers rotated in as far as possible), make adjustments by moving the levers outwards to the neutral lock position and carefully bending them outward. Move them back to the drive position and check for clearance. Repeat if necessary.
6. If the machine turns right or left when handles are pushed forward together, adjust the stop on the side opposite the direction of turn (see Figure 4). Loosen the screws that hold the motion control limiter stop. Move the stop back until the unit drives straight. Tighten the screws to lock the stop in place. Readjust handles if necessary.

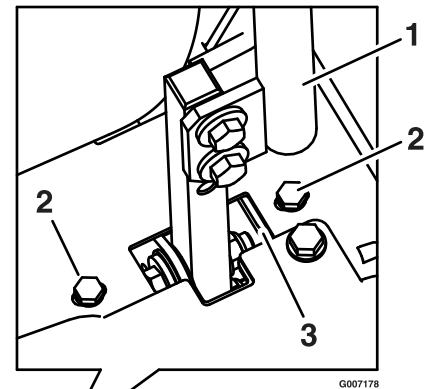


Figure 4

- |                        |                |
|------------------------|----------------|
| 1. Control arm shaft   | 3. Adjust stop |
| 2. Limiter stop screws |                |

# 5

## Servicing the Engine

### No Parts Required

#### Procedure

Engine is shipped with oil; check oil level and if necessary fill to the appropriate level with oil as specified in Engine Owner's Manual.

# 6

## Servicing the Hydraulic Oil

### No Parts Required

#### Procedure

The machine is shipped with hydraulic oil. Verify level on Expansion Tank (see Figure 5).

1. Start engine and drive the machine forward and backward for a few minutes to allow any extra air to purge out of the hydraulic system.
2. Stop engine and wait for all moving parts to stop. Remove key and engage parking brake.
3. Check expansion tank and if necessary add MOBIL 1 15W-50 synthetic motor oil to the FULL COLD line.

**Note:** The proper amount of oil should have been added at the factory. If the reservoir is slightly over full, Do Not remove fluid. The level will go down once all of the air is purged from the system.

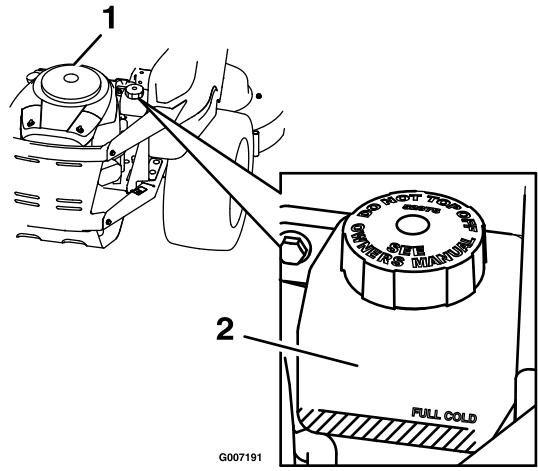


Figure 5

1. Engine
2. Expansion tank

4. Replace expansion tank cap and tighten until snug. Do Not overtighten.

# 7

## Installing the Discharge Deflector

### Parts needed for this procedure:

|   |                    |
|---|--------------------|
| 1 | Deflector assembly |
| 1 | Rod                |
| 1 | Spring             |
| 1 | Cotter pin         |

#### Procedure

1. Install discharge deflector (Figure 6).

# 8

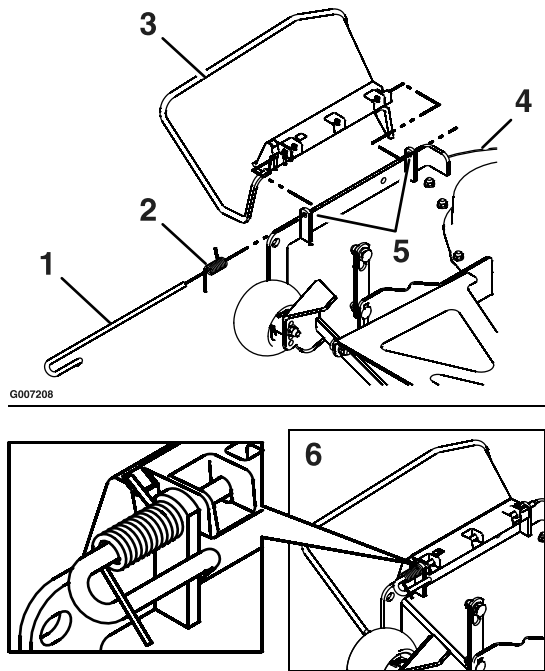
## Converting to Side Discharge (optional)

### Parts needed for this procedure:

|   |                                 |
|---|---------------------------------|
| 1 | Side discharge baffle           |
| 2 | Carriage bolt (5/16 x 3/4 inch) |
| 2 | Hex-head bolt (5/16 x 3/4 inch) |
| 4 | Lock nut (5/16 inch)            |
| 3 | Hole cover decal                |

### Procedure

The mower deck is built for optimum mulching performance at the factory. If the mower is to be converted to side discharge, use the loose parts listed above and See the *Operator's Manual* for the proper procedure.



**Figure 6**

- |                        |                                |
|------------------------|--------------------------------|
| 1. Rod                 | 4. Mower deck                  |
| 2. Spring              | 5. Discharge deflector bracket |
| 3. Discharge deflector | 6. Assembled view              |

2. Orient the spring so that the short leg points towards the discharge deflector and the longer leg points towards the deck as shown in (Figure 6). Place spring on rod and slide rod, straight end, through the front discharge deflector bracket, discharge deflector, and rear deflector bracket.
3. Make sure that the spring and rod are installed so that the rod is retained from sliding out by the front bracket and the spring holds the discharge deflector in the down position. Refer to (Figure 6) for proper orientation.
4. Secure deflector assembly by installing a cotter pin through the hole in the straight end of the rod. Bend the straight ends of the pin back to secure the pin.

# 9

## Completing the Setup

### Parts needed for this procedure:

|   |                                 |
|---|---------------------------------|
| 1 | Ignition Key                    |
| 1 | Hose coupling                   |
| 1 | <i>Operator's Manual</i>        |
| 1 | <i>Engine Operator's Manual</i> |
| 1 | Operator Training Material      |

### Checking the Mower Adjustment

The mower deck was leveled at the factory. If the mower is not cutting level, adjust the side-to-side level and the front-to-rear blade slope. See the *Operator's Manual* for the proper procedure.

### Review the Remaining Parts

Keep all the following items with the machine:

- Ignition Key
- Hose coupling
- *Operator's Manual*
- *Engine Operator's Manual*
- View the Operator training material.



