Form No. 3367-846 Rev C

32RD, 36RD, and 48RD Mid-Size Rear-Discharge Deck

Model No. 02710—Serial No. 312000001 and Up
Model No. 02711—Serial No. 312000001 and Up
Model No. 02712—Serial No. 312000001 and Up

Setup Instructions

These instructions must not be supplied to the customer.

These instructions cover the procedure for a dealer to install a cutting deck (02710, 02711, or 02712) to a Mid Size Power Unit (30069).

This equipment has been designed and constructed so that, in so far as is reasonably practical, they meet the safety requirements of European standard EN 836 and they will not endanger the health and safety of those working with them. This is, however, subject to the machine being properly maintained and used according to the conditions stated in the *Operator's Manual*, and elsewhere, which have been found necessary as a result of the research and testing of the Toro company.

⚠ WARNING

If the engine needs to be running to perform any maintenance adjustments, keep hands, feet, clothing, and parts of the body away from the cutting unit and moving parts.

⚠ WARNING

Engine exhaust contains carbon monoxide, which is an odorless, deadly poison that can kill you.

Do not run engine indoors or in an enclosed area.

Important: Read and understand these assembly instructions before proceeding. Refer to the *Parts Catalog* and *Operator's Manual* for the machine to which these parts are to be fitted.

Important: Ensure that all lifting equipment is in good condition and has a safe and adequate capacity. Always seek assistance when lifting awkward or heavy loads.

Important: Torque all fasteners to the specified torque settings. The parts being fitted must not be drilled, cut or altered in any way.

1

Installing the Cutting Deck

Parts needed for this procedure:

1	Center discharge guard
2	Carriage bolt (M10 x 25 mm)
4	Washer (M8–17)
2	Locknut (M8)
8	Flange nut (3/8 inch)
1	Underside guard
2	Bolt (M8 x 25 mm)
1	Drive pulley guard
8	Bolt (3/8 x 1 inch)
2	Heavy washer (M10)
2	Nut (M10)
8	Curved washer
1	Drag shield
2	Spring washer (M10)

Procedure

1. Raise and support the traction unit using a suitable lifting method.
2. Remove both wheels from the traction unit (Figure 1).

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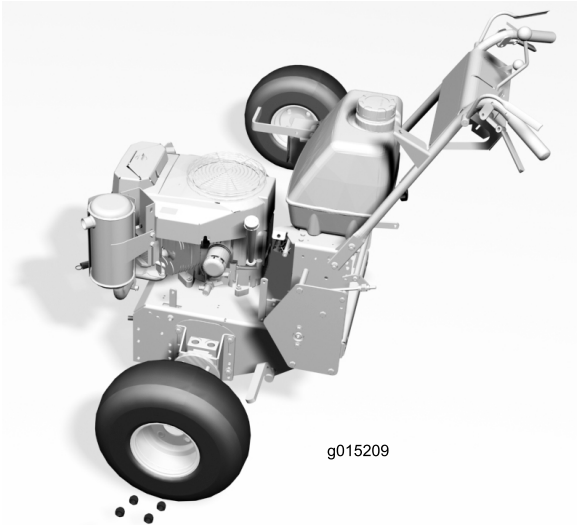

Figure 1

3. Remove the deck cover and the PTO engagement linkage rod before lifting and manoeuvring the rotary cutting deck into position against the power unit (Figure 2).

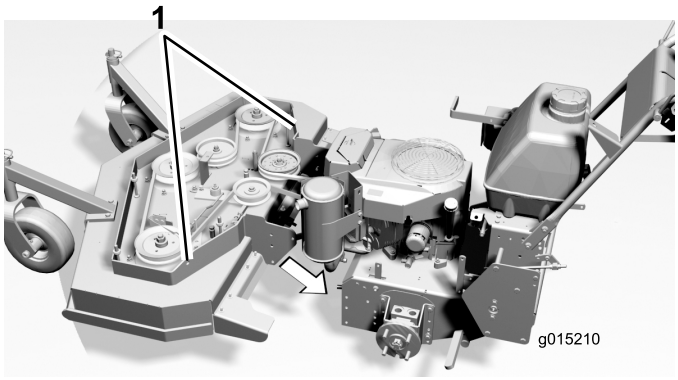

Figure 2

1. Lift points

4. Install 8 bolts (3/8 x 1 inch), curved washers, and flange nuts to secure the rotary cutting deck to the power unit. Note the bolt orientation in Figure 3. Ensure that the engine deck is parallel to the mower deck +/- 0.5 degrees before tightening the fixing bolts.

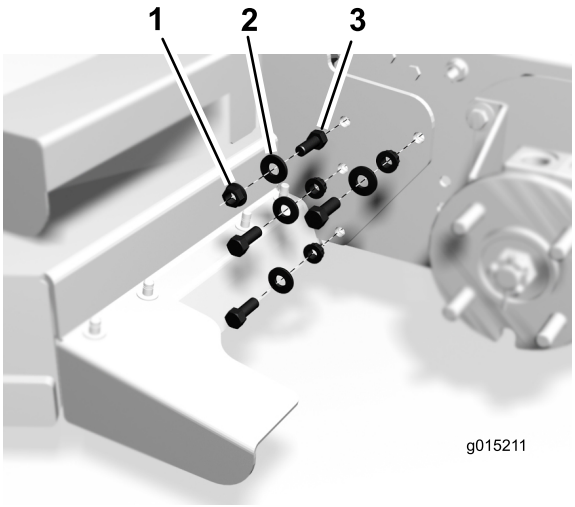

Figure 3

1. Flange nut (3/8 inch)
2. Curved washer
3. Bolt (3/8 x 1 inch)

Note: Figure 3 shows the fasteners out side of the mowing unit to better illustrate which configuration goes with each hole. Install the bolts and washers together on the same side of the frame.

5. Torque the bolts to 40 to 47 N-m.
6. Screw the PTO engagement linkage rod into the power unit bell-crank yoke and then connect the other end to the assist arm and secure it with the hairpin cotter (Figure 4).

Figure 4

7. Adjust the PTO engagement as directed in the Adjusting the PTO Engagement Linkage section in the traction unit *Operator's Manual.*
8. Check the adjustment of the PTO Safety Switch as directed in the Adjusting the PTO Safety Switch section of the traction unit *Operator's Manual.*
9. Check the deck drive belt routing (Figure 5). Refer to the Adjusting the Mower Belt Tension section in the *Operator's Manual* to correctly adjust the deck drive belt. Ensure the belt is on the correct side of

the belt guide under the engine frame and adjust the belt guide.

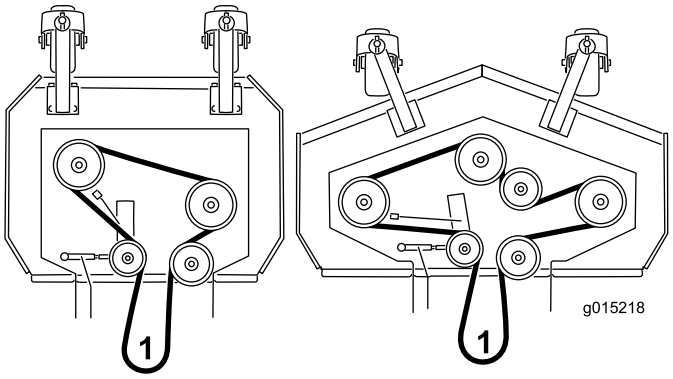

Figure 5
PTO engaged

1. To engine drive pulley

10. Check and adjust the blade brake; refer to the Adjusting the Blade Brake section of the *Operator's Manual*.
11. Install the center discharge guard between the engine frame and the cutter deck.

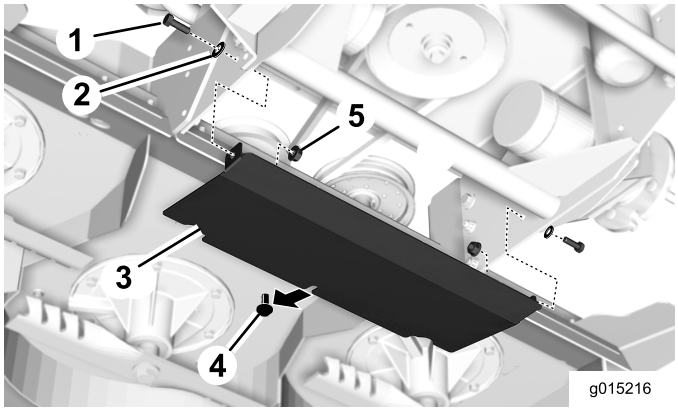

Figure 6

1. Bolt (M8 x 25 mm)
2. Washer (M8–17)
3. Center discharge guard
4. Center bolt and washer
5. Washer (M8–17) and locknut (M8)

A. Remove the center nut, bolt and washers from the center fixing on the deck (Figure 6).
B. Install the guard to the traction unit using 2 bolts (M8 x 25 mm), 4 washers (M8–17), and 2 locknuts (M8) in the lower hole on the engine frame (Figure 6).
C. Secure the front of the guard to the deck using the center bolt, washer, and nut you removed previously (Figure 6).

12. Refer to the Adjusting the Height of Cut section in the *Operator's Manual* and check/adjust the height setting of the rear axle depending on what height of cut is required.
13. Install the traction wheels to the hubs and secure with drive wheel lug nuts. Torque Nuts to 122 - 129 N-m.
14. Lower the unit to the ground.
15. Install the drive pulley guard to the rear of the engine frame with 2 carriage bolts (M10 x 25 mm), heavy washers (M10), spring washers, and nuts (M10)(Figure 7). Ensure that you center the guard on the engine frame.

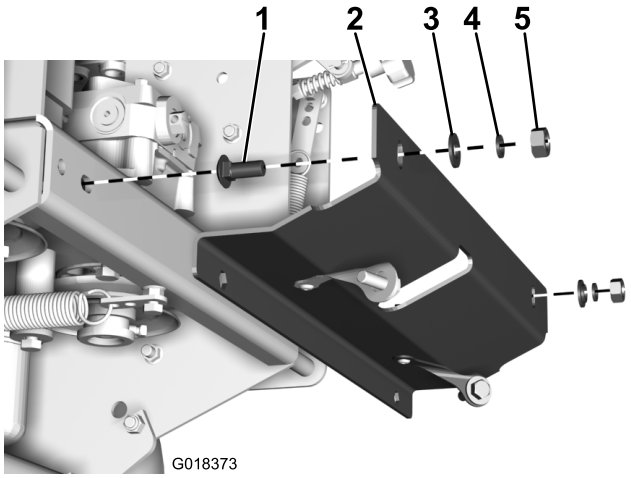

Figure 7

1. Carriage bolt (M10 x 25 mm)
2. Drive pulley guard
3. Heavy washer (M10)
4. Spring washer
5. Nut (M10)

16. Test fit the underside guard and adjust the position of the drive pulley guard if necessary (Figure 8).

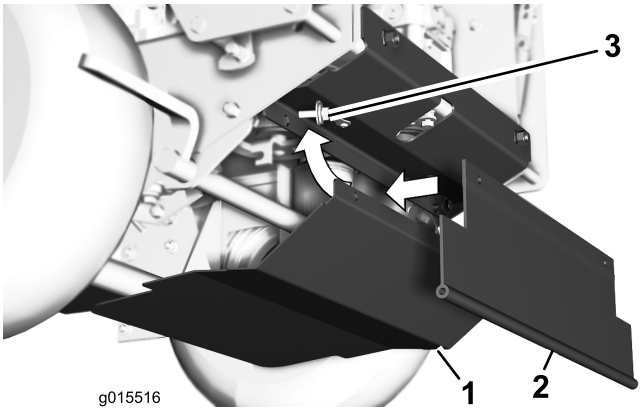

Figure 8

1. Underside guard
2. Drag shield
3. Bolt, captured in the lanyard

17. Install the underside guard and drag shield to the drive pulley guard and secure them with the bolts

captured in the lanyards on the drive pulley guard (Figure 8).

18. Adjust the caster position and the blade height to the correct height of cut referring to the Adjusting the Height of Cut section in the *Operator's Manual*. Install the deck cover and secure it with the removed fasteners.
19. If the hydraulic pump by-pass valve was opened so the power unit could be pushed, close the by-pass valves, but do not over tighten. Check all fasteners are correctly tightened and all fluid levels are at the correct level. Start the engine referring to the Starting and Stopping section in the *Operator's Manual* and check the operation of all controls, referring to the *Operator's Manual*.
20. Collect all parts and documentation back together for the customer. Fill out the warranty and pre-delivery inspection documentation.

    Note: A warranty registration card needs to be completed, both for the power unit and the deck.

2

Setting the Idle Speed

No Parts Required

Procedure

In order to ensure compliance with the EU Noise Directive, the dealer is required to verify the correct engine speed 2900 RPM when the power unit is connected to models 02710 and 02711 and 3500 RPM when the power unit is connected to model 02712.

2900/3500 RPM is the unloaded engine rpm, adjust with the PTO Off (Disengaged). Tolerance is plus 0 rpm, minus 50 rpm. The engine should be warm; run the engine for 15 minutes before adjusting. Double check the final engine speed after settings are made and tightened.

1. 1. Loosen the locknut and unscrew the high idle screw a few turns. When setting the engine rpm on power units connected to models 02710 and 02711, replace the high idle screw with the high idle M5 x 50 screw supplied with 02710 and 02711 (Figure 9).

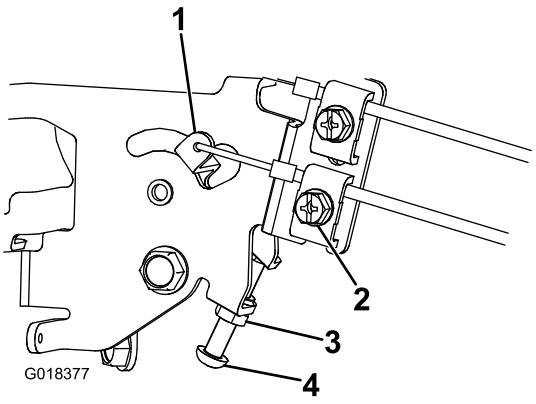

Figure 9

1. Speed control lever
2. Cable screw
3. Locknut
4. High idle screw

2. Move the throttle lever, on the operator control panel, to obtain the desired engine rpm.
3. Turn the high idle screw so that the end of it just touches the speed control lever, and tighten the lock nut (Figure 9).
4. Check the high idle speed and repeat this procedure if necessary.
5. Loosen the cable screw and adjust the cable length so that the throttle lever on the operator control panel is set to full throttle when the speed control lever touches the previously set high idle screw.
6. Tighten the cable screw.