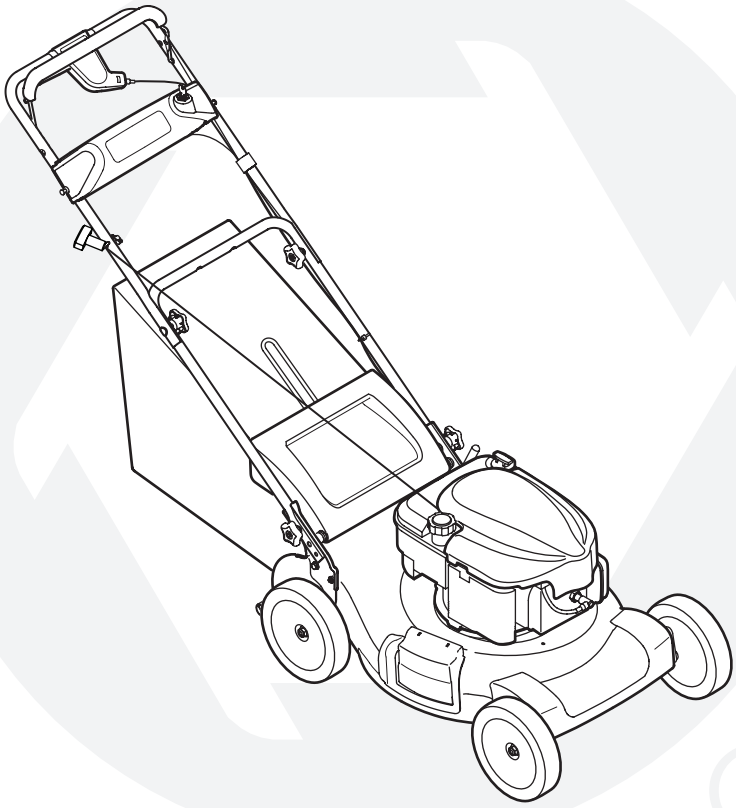
OPERATOR'S MANUAL

TROY-BILT®



*Shown with Optional Electric Start

21-inch Rotary Mower — Model Series 830

IMPORTANT

READ SAFETY RULES AND INSTRUCTIONS CAREFULLY BEFORE OPERATION

Warning: This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator. In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest engine authorized service dealer or contact the service department, P.O. Box 361131 Cleveland, Ohio 44136-0019.

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TROY-BILT LLC, P.O. BOX 361131 CLEVELAND, OHIO 44136-0019

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Maintaining Your Lawn Mower

WARNING

Always stop engine, disconnect spark plug, and ground against engine before cleaning, lubricating, or performing any kind of maintenance on your machine.

IMPORTANT: The use of a pressure washer or garden hose to clean your unit is not recommended. These may cause damage to electric components, spindles, pulleys, bearings, or the engine. The use of water will result in shortened life and reduce serviceability.

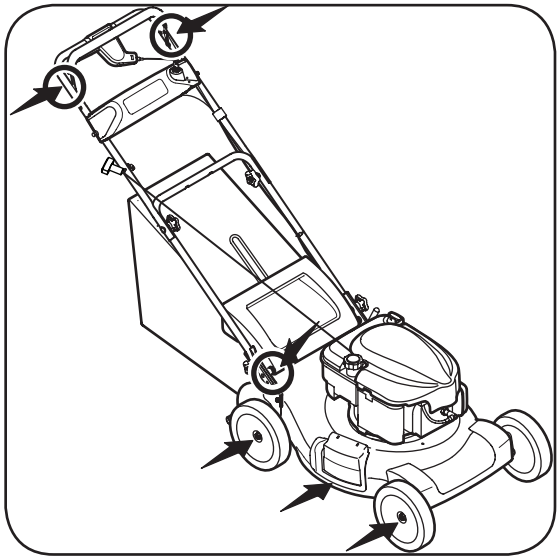

Figure 5-1: Lubrication areas on the mower.

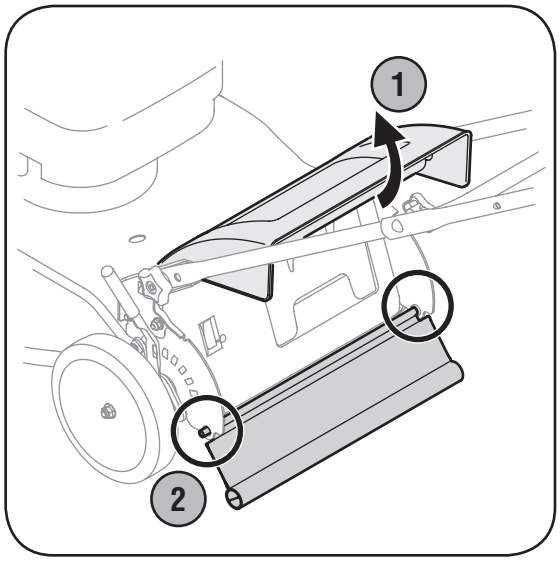

Figure 5-2: Replacing the rear flap.

General Recommendations

- Always observe safety rules when performing any maintenance.
- The warranty on this lawn mower does not cover items that have been subjected to operator abuse or negligence. To receive full value from warranty, operator must maintain the lawn mower as instructed here.
- Changing of engine-governed speed will void engine warranty.
- All adjustments should be checked at least once each season.
- Periodically check all fasteners and make sure these are tight.

WARNING: Always stop engine, disconnect spark plug, and ground against engine before cleaning, lubricating or doing any kind of maintenance on your machine.

Lubrication

1. Lubricate pivot points on the blade control at least once a season with light oil. The blade control must operate freely in both directions. See Figure 5-1.
2. Lubricate the wheels at least once a season with light oil (or motor oil). If wheels are removed for any reason, lubricate surface of the axle and inner surface of the wheel with light oil.
3. Lubricate the torsion spring and pivot point on the rear discharge door and side mulch plug periodically with light oil to prevent rust. See Figure 5-1.
4. The transmission is pre-lubricated and sealed at the factory and does not require lubrication.
5. Follow the accompanying engine manual for lubrication schedule and instruction for engine lubrication.

Deck Care

1. Disconnect spark plug wire. Drain gasoline from lawn mower or place a piece of plastic under the gas cap.
2. Tip mower so that it rests on the housing. Keep the side with the air cleaner facing up. Hold mower firmly.

WARNING: Never tip the mower more than 90 degrees in any directions and do not leave the mower tipped for any length of time. Oil can drain into the upper part of the engine causing a starting problem.

3. Scrape and clean the underside of the deck with a suitable tool. Do not spray with water.
4. Put the mower back on its wheels on the ground. If you had put plastic under the gas cap earlier, make sure to remove it now.

Engine Care

- Maintain oil level as instructed in engine manual.
- Service air cleaner every 25 hours under normal conditions. Clean every few hours under extremely dusty conditions. Refer to engine manual.
- Clean spark plug and reset the gap once a season. Check engine manual for correct plug type and gap specifications.
- Clean engine regularly with a cloth or brush. Keep the cooling system (blower housing area) clean to permit proper air circulation. Remove all grass, dirt and combustible debris from muffler area.

Replacing Rear Flap

1. Lift up rear door.
2. Bend (bow) the rear flap inward on each side to release tabs from the holes in the handle mounting brackets. See Figure 5-2.
3. Replace with new flap by bending the rear flap and sliding into place.

Ref. No.	Part No.	Description
1	746-04265A	Drive Cable
2	735-04059	Rubber Grommet
3	753-05096A	Drive Control Assembly
4	731-04204	Bail Cover
5	747-1161A	Blade Control
6	746-04213	Control Cable
7	749-04037	Lower Handle
8	725-0157	Cable Tie
9	732-04265	Torsion Spring, LH
10	710-0599	TT Screw, 1/4-20 x .500
11	787-01341A	21-inch Deck
12	710-0654A	TT Screw, 3/8-16 x 1.00
13	787-01346	Front Deck Baffle
14	756-04157B††	Upper Engine Pulley
	756-04273‡	Upper Engine Pulley
15	756-04156B††	Lower Engine Pulley
	756-04272‡	Lower Engine Pulley
16	736-0514††	Flat Wash., .885 x 1.850 x .060
17	748-0376C	Blade Adapter
18	710-1044	Screw, 3/8-24 x 1.50
19	736-0524B	Blade Bell Support
20	742-0741	21" Mulching Blade
21	736-0513††	Sprg Washer, .890 x 1.70 x .048
22	750-1071††	Sleeve Spacer, .88 x 1.13 x .12
	750-04818‡	Slv. Spcr., 25mm x 1.375 x .375
23	731-05903	Engine Baffle
24	731-05463A	Deck Baffle
25	710-0260A	Carriage Bolt, 5/16-18 x .62
26	712-04063	Flange Lock Nut, 5/16-18
27	731-05462A	Trailshield

Ref. No.	Part No.	Description
28	731-05157	Mulch Plug
29	731-05017A	Rear Door
30	710-1241	Screw, 1/4-15 x 1.00
31	720-04072	Star Knob
32	732-04264	Torsion Spring, RH
33	711-04374	Door Pivot Rod
34	647-04051	Grass Catcher Frame
35	664-04045	Grass Catcher
36	710-1174	Carriage Bolt, 5/16-18 x 2.00
37	720-0279	Wing Nut
38	710-1205	Eye Bolt
39	749-04209†	Upper Handle
	749-04206	Upper Handle
40	736-0270	Bell Washer, .265 x .75 x .062
41	732-1014	Torsion Spring
42	17032A	Chute Deflector Adapter
43	747-0710	Hinge Pin
44	687-02055	Mulch Plug Assembly
45	731-04177	Side Discharge Chute
46	725-04323†	12 Volt Battery
47	725-04329†	Battery Charger
48	726-0240†	Cable Tie
49	728-0199†	Rivet
50	725-04347†	Key Switch
51	725-0201†	Key
52	625-04029†	Electric Starter Harness Ass'y.
53	710-1667A†	Screw, #10-16 x .750
54	750-04825‡	Sleeve Spacer
55	736-0447‡	Washer, Wave, 1.5 x 1.0 x .029

† Equipped with Electric Start Units

†† Equipped on Units with Briggs & Stratton Engine

‡ Equipped on Units with Honda Engine

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Parts List

MTD For A Growing World. GENUINE FACTORY PARTS

To order replacement parts, call 1-866-840-6483, 1-330-558-7220, or log on to our Web site at www.troybilt.com