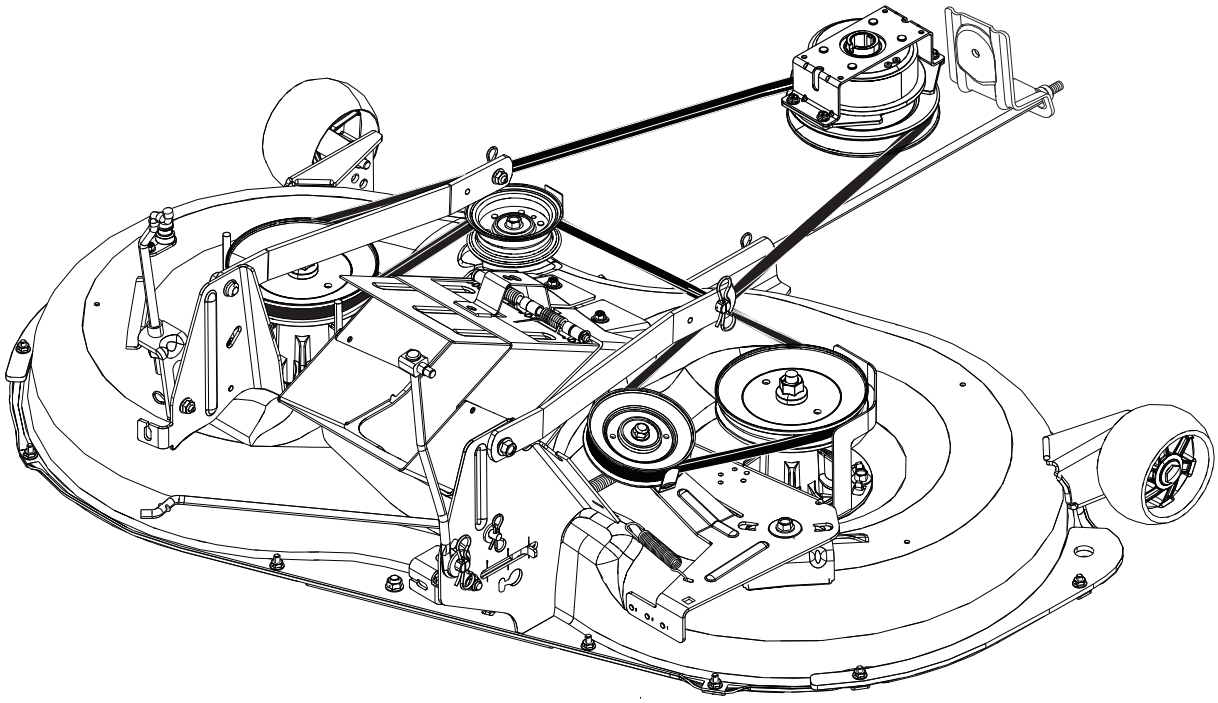
INSTALLATION AND REPAIR PARTS MANUAL

108 CM REPLACEMENT MOWER DECK
FOR LAWN TRACTORS

PART NUMBER **597 95 93-03**



598 00 13-03

SAFETY RULES

Safe Operation Practices for Ride-On Mowers

DANGER: THIS CUTTING MACHINE IS CAPABLE OF AMPUTATING HANDS AND FEET AND THROWING OBJECTS. FAILURE TO OBSERVE THE FOLLOWING SAFETY INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR DEATH.

WARNING: In order to prevent accidental starting when setting up, transporting, adjusting or making repairs, always disconnect spark plug wire and place wire where it cannot contact spark plug.

WARNING: Do not coast down a hill in neutral, you may lose control of the tractor.

WARNING: Tow only the attachments that are recommended by and comply with specifications of the manufacturer of your tractor. Use common sense when towing. Operate only at the lowest possible speed when on a slope. Too heavy of a load, while on a slope, is dangerous. Tires can lose traction with the ground and cause you to lose control of your tractor.

WARNING

Engine exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

WARNING

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

I. CHILDREN

WARNING! CHILDREN CAN BE INJURED BY THIS EQUIPMENT. The American Academy of Pediatrics recommends that children be a minimum of 12 year of age before operating a pedestrian controlled lawn mower and a minimum of 16 years of age before operating a riding lawn mower.

WARNING! CHILDREN CAN BE SERIOUSLY INJURED OR KILLED BY THIS EQUIPMENT. Carefully read and follow all of the safety instructions below.

Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. Never assume that children will remain where you last saw them.

- Keep children out of the mowing area and in the watchful care of a responsible adult **other than** the operator.
- Be alert and turn machine off if a child enters the area.
- Before and while backing, look behind and down for small children.
- Never carry children, even with the blades shut off. They may fall off and be seriously injured or interfere with safe machine operation. Children who have been given rides in the past may suddenly appear in the mowing area for another ride and be run over or backed over by the machine.
- Never allow children to operate the machine.
- Use extreme caution when approaching blind corners, shrubs, trees, or other objects that may block your view of a child.

II. GENERAL OPERATION

- Read, understand, and follow all instructions on the machine and in the manual before starting.
- Do not put hands or feet near rotating parts or under the machine. Keep clear of the discharge opening at all times.
- Only allow responsible adults, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blades.
- Ensure the area is clear of bystanders before operating. Stop machine if anyone enters the area.
- Never carry passengers.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Never direct discharged material toward anyone. Avoid discharging material against a wall or obstruction. Material may ricochet back toward the operator. Stop the blades when crossing gravel surfaces.
- Do not operate machine without the entire grass catcher, discharge chute, or other safety devices in place and working.
- Slow down before turning.
- Never leave a running machine unattended. Always turn off blades, set parking brake, stop engine, and remove keys before dismounting.
- Disengage blades when not mowing. Shut off engine and wait for all parts to come to a complete stop before cleaning the machine, removing the grass catcher, or unclogging the discharge chute.
- Operate machine only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Watch for traffic when operating near or crossing roadways.
- Use extreme caution when loading or unloading the machine into a trailer or truck.
- Always wear eye protection when operating machine.
- Use ear protectors to avoid damage to hearing.
- Data indicates that operators, age 60 years and above, are involved in a large percentage of riding mower-related injuries. These operators should evaluate their ability to operate the riding mower safely enough to protect themselves and others from serious injury.
- Follow the manufacturer's recommendation for wheel weights or counterweights.
- Keep machine free of grass, leaves or other debris build-up which can touch hot exhaust / engine parts and burn. Do not allow the mower deck to plow leaves or other debris which can cause build-up to occur. Clean any oil or fuel spillage before operating or storing the machine. Allow machine to cool before storage.

SAFETY RULES

Safe Operation Practices for Ride-On Mowers

III. SLOPE OPERATION

WARNING! When loading or unloading this machine, do not exceed the maximum recommended operation angle of 15°.

Slopes are a major factor related to loss of control and tip-over accidents, which can result in severe injury or death. Operation on all slopes requires extreme caution. If you cannot back up the slope or if you feel uneasy on it, do not mow it.

- Mow up and down slopes, not across.
- Watch for holes, ruts, bumps, rocks, or other hidden objects. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- Choose a low ground speed so that you will not have to stop or shift while on the slope.
- Do not mow on wet grass. Tires may lose traction. Always keep the machine in gear when going down slopes.
- Do not shift to neutral and coast downhill.
- Avoid starting, stopping, or turning on a slope. If the tires lose traction, disengage the blades and proceed slowly straight down the slope.
- Keep all movement on the slopes slow and gradual. Do not make sudden changes in speed or direction, which could cause the machine to roll over.
- Use extreme caution while operating machine with grass catchers or other attachments; they can affect the stability of the machine. Do no use on steep slopes.
- Do not try to stabilize the machine by putting your foot on the ground.
- Do not mow near drop-offs, ditches, or embankments. The machine could suddenly roll over if a wheel is over the edge or if the edge caves in.
- If machine stops while going uphill, disengage blades, shift into reverse and back down slowly.
- Do not turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.



IV. TOWING

- Tow only with a machine that has a hitch designed for towing. Do not attach towed equipment except at the hitch point.
- Follow the manufacturer's recommendation for weight limits for towed equipment and towing on slopes.
- Never allow children or others in or on towed equipment.
- On slopes, the weight of the towed equipment may cause loss of traction and loss of control.
- Travel slowly and allow extra distance to stop.

V. SERVICE

SAFE HANDLING OF GASOLINE

To avoid personal injury or property damage, use extreme care in handling gasoline. Gasoline is extremely flammable and the vapors are explosive.

- Extinguish all cigarettes, cigars, pipes, and other sources of ignition.
- Use only approved gasoline container.
- Never remove gas cap or add fuel with the engine running.
- Allow engine to cool before refueling.
- Never fuel the machine indoors.
- Never store the machine or fuel container where there is an open flame, spark, or pilot light such as on a water heater or other appliances.
- Never fill containers inside a vehicle or on a truck or trailer bed with plastic liner. Always place containers on the ground away from your vehicle when filling.
- Remove gas-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, then refuel such equipment with a portable container, rather than from a gasoline dispenser nozzle.
- Keep the nozzle in contact with the rim of the fuel tank or container opening at all times until fueling is complete. Do not use a nozzle lock-open device.
- If fuel is spilled on clothing, change clothing immediately.
- Never overfill fuel tank. Replace gas cap and tighten securely.

GENERAL SERVICE

- Never operate machine in a closed area.
- Keep all nuts and bolts tight to ensure the equipment is in safe working condition.
- Never tamper with safety devices. Never interfere with the intended function of a safety device or reduce the protection provided by a safety device. Check there proper operation regularly. NEVER operate a machine with a safety device that does not function properly.
- Keep machine free of grass, leaves, or other debris build-up. Clean oil or fuel spillage and remove any fuel-soaked debris. Allow machine to cool before storing.
- If you strike a foreign object, stop and inspect the machine. Repair, if necessary, before restarting.
- Never make any adjustments or repairs with the engine running.
- Check grass catcher components and the discharge chute frequently and replace with manufacturer's recommended parts, when necessary.
- Mower blades are sharp. Wrap the blade or wear gloves, and use extreme caution when servicing them.
- Check brake operation frequently. Adjust and service as required.
- Maintain or replace safety and instruction labels, as necessary.


Use ear protectors to avoid damage to hearing.



Always wear eye protection when operating machine.

REMOVAL & INSTALLATION

WARNING: TO AVOID SERIOUS INJURY, BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:
- **Depress brake pedal fully and set parking brake.**
- **Place attachment clutch in "DISENGAGED" position.**
- **Turn ignition key to "STOP" and remove key.**
- **Make sure the blades and all moving parts have completely stopped.**
- **Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with plug.**

TO REMOVE CENTER CHUTE (See Fig. 1)

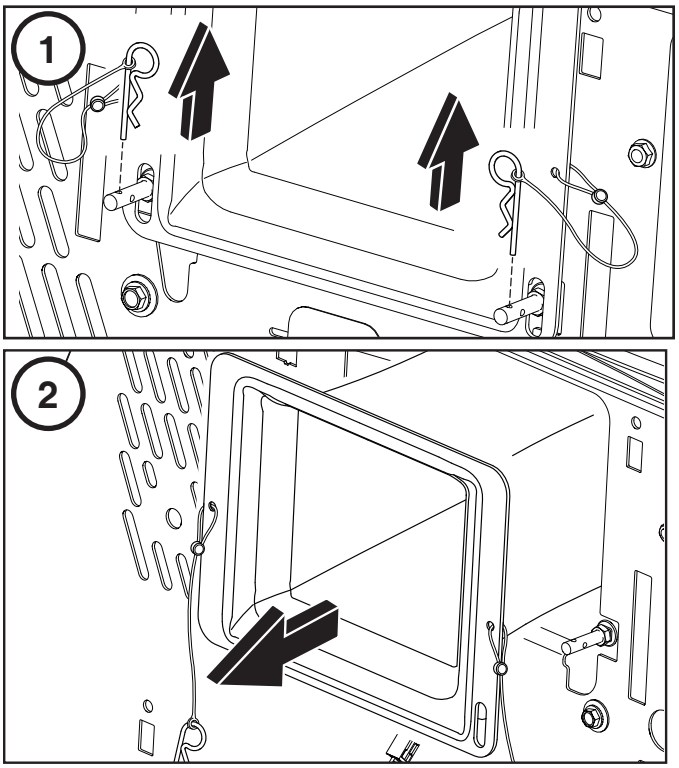


Fig. 1

TO REMOVE MOWER (SEE FIG. 2)

- Remove center chute as described previously.
- Place attachment clutch in "DISENGAGED" position.
- Lower attachment lift lever to its lowest position.
- Remove cable (H) by depressing tabs (I) and removing cable end from bracket (J).
- Remove mandrel cover (Q).
- Remove mower belt from clutch pulley (M).
- Dismantle the retainer spring (E) and remove the lever.
- Dismantle the retainer spring (A) and remove the lever.
- Dismantle the retainer spring (D) and remove the lever.
- Dismantle the retainer spring (F) and remove the anti-sway bar.

IMPORTANT: IF AN ATTACHMENT OTHER THAN THE MOWER DECK IS TO BE MOUNTED ON THE TRACTOR, REMOVE THE FRONT LINKS.

- Slide mower out from under right side of tractor.

CAUTION: Attachment lift lever is spring loaded. Have a tight grip on rod and release slowly.

TO INSTALL MOWER

- Push in the mower deck under the tractor.
- Assemble in the reverse order to dismantling.

IMPORTANT: Check belt for proper routing in all mower pulley grooves.

NOTE: Arrows on belt routing image represent a twist in the belt in order to correctly align with pulleys. Narrow side of belt always mate to pulleys, wide side of belt always mate to flat idlers.

- Raise attachment lift lever to highest position.

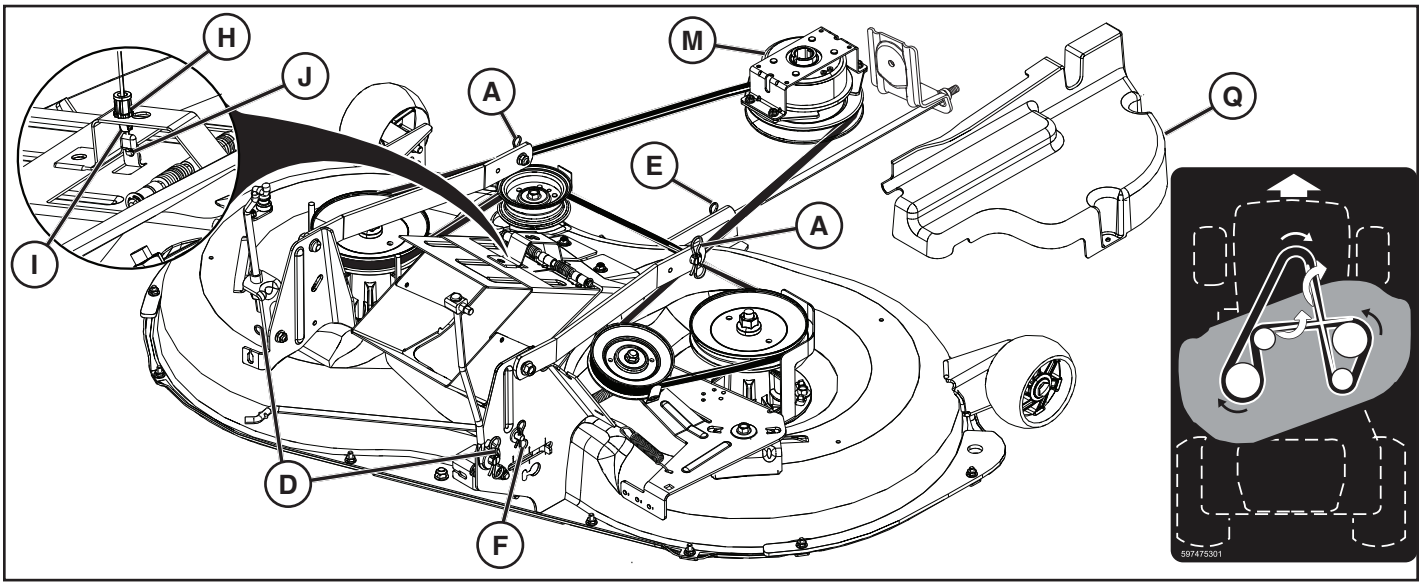


Fig. 2

REMOVAL & INSTALLATION

TO LEVEL MOWER

Ensure tires are properly inflated to the PSI shown on tires. If tires are over or under inflated, it may affect the appearance of your lawn and lead you to think the mower is not adjusted properly.

VISUAL SIDE-TO-SIDE ADJUSTMENT (See Fig. 3)

- With all tires properly inflated and if your lawn appears unevenly cut, determine which side of mower is cutting lower.
- With a 3/4" or adjustable wrench, turn lift link adjustment nut (A) to the left to lower LH side of mower, or, to the right to raise LH side of mower.

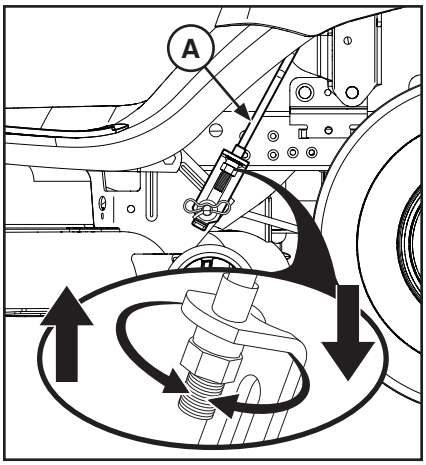


Fig. 3

NOTE: Each full turn of adjustment nut will change mower height about 3/16" (4,7 mm).

- Test your adjustment by mowing some uncut grass and visually checking the appearance. Readjust, if necessary, until you are satisfied with the results.

PRECISION SIDE-TO-SIDE ADJUSTMENT (See Fig. 4)

- With all tires properly inflated, park tractor on level ground or driveway.

CAUTION: Blade is sharp. Protect your hands with gloves and/or wrap blade with heavy cloth.

- Raise mower to its highest position.
- At both sides of mower, position blade at side and measure the distance (A) from bottom edge of blade to the ground. The distance should be the same on both sides.

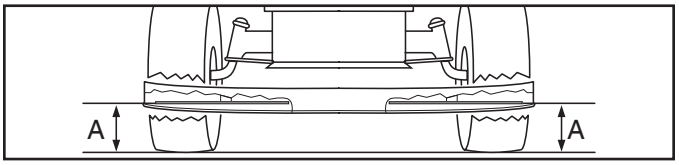


Fig. 4

- If adjustment is necessary, see steps in Visual Adjustment instructions above.
- Recheck measurements, adjust if necessary until both sides are equal.

FRONT-TO-BACK ADJUSTMENT (See Figs. 5 & 6)

IMPORTANT: Deck must be level side-to-side.

To obtain the best cutting results, the mower blades should be adjusted so the front tip is 1/8" to 3/8" (3,1 to 9,5 mm) lower than the rear tip when the mower is in its highest position.

CAUTION: Blade is sharp. Protect your hands with gloves and/or wrap blade with heavy cloth.

- Raise mower to highest position.
- Position blade so the tip is pointing straight forward. Measure distance (B) to the ground at front and rear tip of the blade.

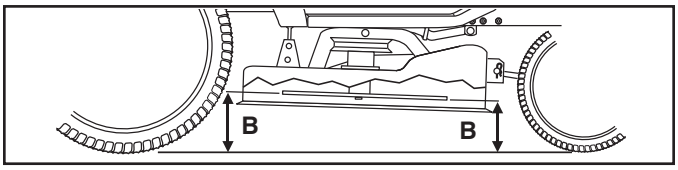


Fig. 5

- If front tip of blade is not 1/8" to 3/8" (3,1 to 9,5 mm) lower than the rear tip, go to the front of tractor.
- With an 11/16" or adjustable wrench, loosen jam nut A several turns to clear adjustment nut B.
- With a 3/4" or adjustable wrench, turn front link adjustment nut (B) clockwise (↷) (tighten) to raise the front of mower, or, counterclockwise (↶) (loosen) to lower the front mower.

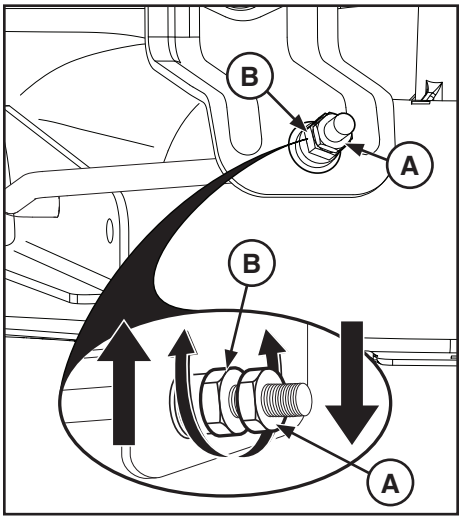


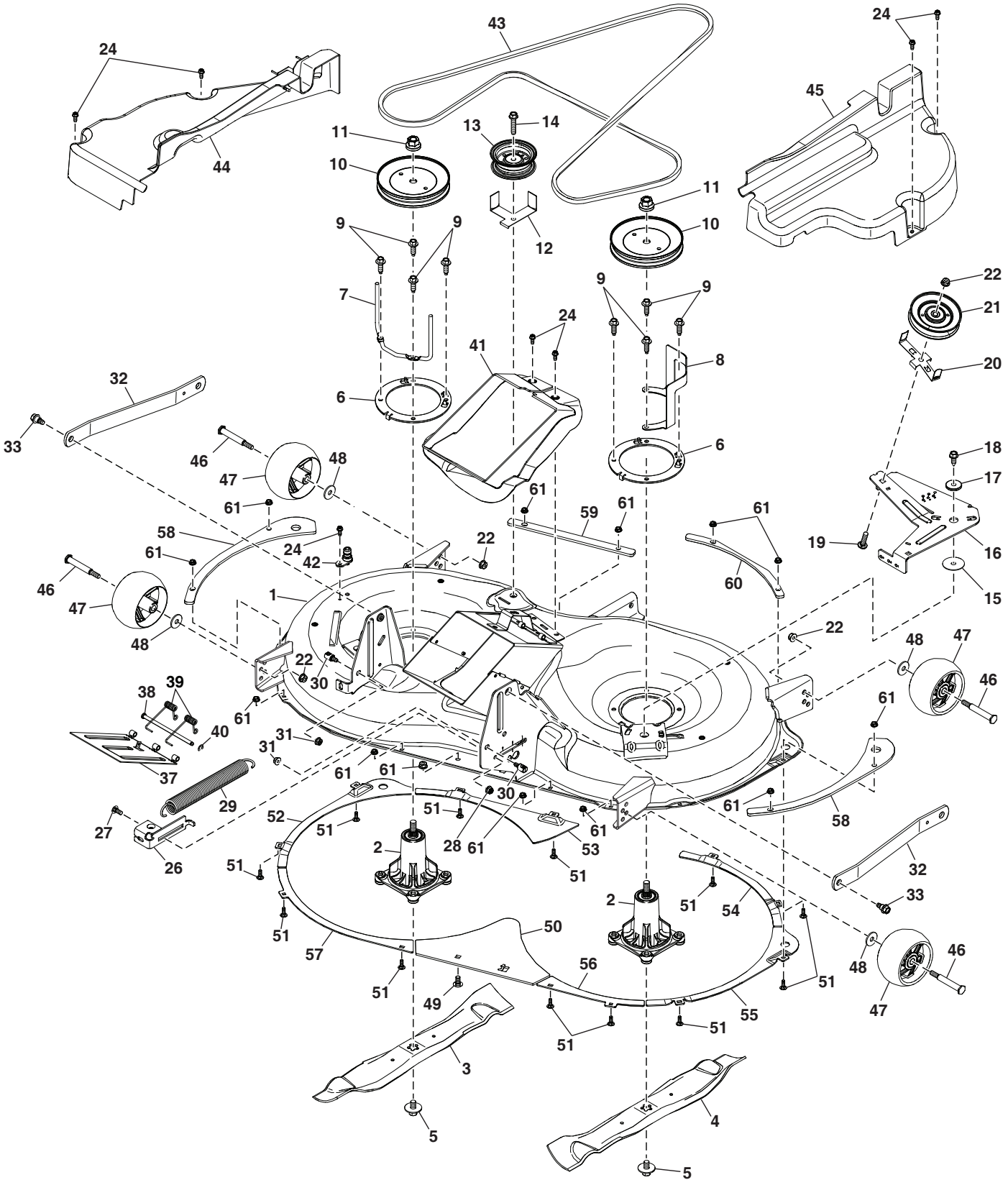
Fig. 6

NOTE: Each full turn of the adjustment nut will change mower height about 1/8" (3,1 mm).

- Recheck measurements, adjust if necessary until front tip of blade is 1/8" to 3/8" (3,1 to 9,5 mm) lower than the rear tip.
- Hold adjustment nut in position with wrench and tighten jam nut securely against adjustment nut.

REPAIR PARTS

108 CM REPLACEMENT MOWER DECK PART # 597 95 93-03

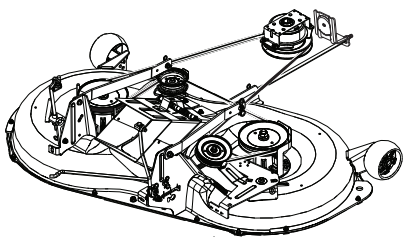


REPAIR PARTS

108 CM REPLACEMENT MOWER DECK PART # 597 95 93-03

KEY NO.	PART NO.	DESCRIPTION
1	594 02 43-05	Deck Shell Assy Grey
2	587 12 61-06	Mandrel Assy
3	594 02 47-01	LH Blade
4	594 02 48-01	RH Blade
5	584 30 93-01	Bolt
6	595 96 02-02	Mandrel Reinforcement Plate
7	589 67 61-02	Belt Keeper
8	595 53 33-02	Belt Keeper
9	584 95 39-01	Screw
10	532 19 59-45	Pulley
11	596 13 48-01	Nut
12	532 43 68-58	Keeper
13	532 19 31-97	Pulley
14	596 56 40-03	Screw
15	532 10 65-13	Washer
16	594 02 45-02	Arm
17	532 19 90-92	Spacer
18	817 00 06-16	Screw
19	596 13 61-01	Bolt
20	597 35 12-02	Keeper
21	532 19 31-95	Pulley
22	873 90 06-00	Nut
24	532 13 77-29	Screw
26	594 02 46-02	Tension Adjustment Bracket
27	595 90 16-01	Bolt
28	594 94 44-01	Nut
29	582 50 40-01	Spring
30	593 82 40-01	Stud
31	596 13 57-01	Nut
32	594 92 82-02	Suspension Link
33	532 19 65-39	Screw
37	594 02 55-02	Mulch Door
38	593 88 95-01	Pin
39	532 44 58-96	Spring
40	532 43 79-88	E-Ring
41	597 25 22-01	Lower Chute Sealing Collar
42	532 41 55-98	Washout Port
43	594 02 49-01	Belt
44	594 02 58-01	LHMandrel Cover Assy
45	594 02 59-01	RH Mandrel Cover Assy
46	596 13 44-01	Bolt
47	589 52 73-01	Gauge Wheel
48	819 13 20-12	Washer
49	596 13 60-01	Bolt
50	595 83 96-02	Rear Containment Plate
51	539 11 56-20	Bolt
52	597 25 23-02	LH Containment Plate
53	597 25 27-02	LH FR Containment Plate
54	597 25 28-02	RH FR Containment Plate
55	597 25 24-02	RH Containment Plate
56	597 25 26-02	RH RR Containment Plate
57	597 25 25-02	LH RR Containment Plate
58	594 02 50-02	Side Reinforcement Plate
59	594 02 52-02	LH FR Reinforcement Plate
60	594 02 51-02	RH FR Reinforcement Plate
61	873 90 04-00	Nut
- -	597 47 53-01	Decal
- -	597 95 93-03	Replacement Mower Complete
- -	598 00 13-03	Manual, Parts, English

NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm



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