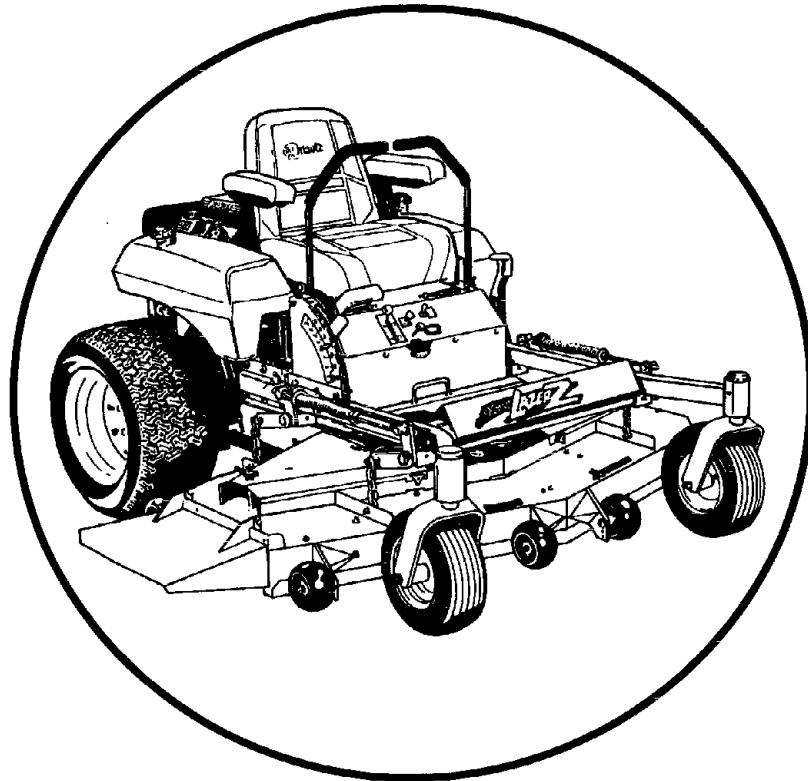




**For Serial Numbers:
160,000 and Higher**

**For Serial Numbers:
159,999 and Lower
Reference Part No.
850417**

Lazer Z



Operator's Manual

Part No. 850546

NOTES



WARNING

**FAILURE TO FOLLOW CAUTIOUS
OPERATING PRACTICES CAN RESULT IN
SERIOUS OPERATOR INJURY.**



CAUTION

1. Keep all shields, guards and safety devices (especially grass discharge system) in place and in proper working condition.
2. Stop engine and remove spark plug wire(s) or remove key before adjusting, servicing, or performing maintenance.
3. When mower deck becomes clogged, stop engine and remove spark plug wire(s) or remove key before cleaning blockage.
4. Keep hands, feet, and clothing away from power-driven parts.
5. Keep off mower unless seat or platform is provided.
6. Keep others off mower.



WARNING

CHEMICALS KNOWN TO THE STATE TO CAUSE CANCER, BIRTH DEFECTS, OR OTHER REPRODUCTIVE HARM ARE FOUND IN GASOLINE, CRUDE OIL, AND MANY OTHER PETROLEUM PRODUCTS AND THEIR VAPORS, OR RESULT FROM THEIR USE.

READ AND FOLLOW LABEL DIRECTIONS AND USE CARE WHEN HANDLING OR USING ALL PETROLEUM PRODUCTS.

(CALIFORNIA HEALTH AND SAFETY CODE SECTION 25249.6)



HEALTH WARNING

GASOLINE

**Harmful or fatal if swallowed.
Long-term exposure to vapors has caused cancer in laboratory animals.**

- **Avoid prolonged breathing of vapors.**
- **Keep face away from nozzle and gas tank/container opening.**
- **Keep away from eyes and skin.**
- **Never siphon by mouth.**

Failure to use caution may cause serious injury or illness.

Exmark reserves the right to make changes or add improvements to its products at any time without incurring any obligation to make such changes to products manufactured previously. Exmark, or its distributors and dealers, accept no responsibility for variations which may be evident in the actual specifications of its products and the statements and descriptions contained in this publication.

EXMARK PARTS PLUS® PROGRAM

EFFECTIVE DATE: September 1, 1995

Program

If your Exmark dealer does not have the Exmark part in stock, Exmark will get the parts to the dealer the next business day or the part will be FREE* Guaranteed!!

How the Program Works

1. If dealer does not have part in stock for a "down" unit at the time of request by customer, the dealer contacts his distributor by 1:00 p.m., local time, and requests Exmark Parts Plus® shipment of six (6) line items or less.
2. Distributor ships part(s) to dealer or customer, as requested by dealer, same day, overnight UPS. Distributor bills dealer for part and freight charges where applicable.
3. If distributor does not have the part(s) in stock to satisfy Exmark Parts Plus® order, he contacts Exmark by 3:00 p.m., central time, with an Exmark Parts Plus® order of six (6) line items or less.
4. If order is received by 3:00 p.m. central time, Exmark ships part(s) direct to dealer or customer, as requested by distributor, same day, overnight UPS. Exmark bills the distributor for parts and shipping charges, where applicable.
5. The customer pays for the part and freight if it is shipped under the Exmark Parts Plus® and if it arrive in accordance to the program.
6. Who pays for the part and freight if it fails to arrive overnight in accordance to the program?
 - A. Under any circumstance the customer does not pay.
 - B. If the part does not arrive overnight due to:
 1. The dealer not submitting the Exmark Parts Plus® order to his Exmark distributor by 1:00 p.m., the dealer pays for the part and freight.
 2. The Distributor being unable to ship the part the same day or not submitting the Exmark Parts Plus® order to Exmark by 3:00 p.m., central time, the Distributor pays for the part and freight.
 3. Exmark being unable to ship the part and the Exmark parts order is received by 3:00 p.m., central time, Exmark pays for the part and freight.
 4. If the part does not arrive overnight due to the shipper (UPS), the shipper pays for the freight and Exmark pays for the part.



The following restrictions apply -- The Exmark Parts Plus® Program is available only through participating Exmark Dealers and applies only to orders submitted on this program Monday through Thursday. UPS has initiated a Saturday delivery program to many areas of the continental United States and can be requested for an overnight shipment on Friday to be delivered Saturday. The next day air charge, plus the Saturday delivery fee will be the responsibility of the purchaser. Exmark Mfg. will assume no responsibility for Saturday delivery shipments. To qualify, all Exmark Parts Plus® orders must be received by Exmark by 3:00 p.m., central time. Orders must be six (6) line items or less. Exclusions from the Exmark Parts Plus® Program are: Any wholegood or accessory in its entirety, engines and engine replacement parts, 5-speed Peerless transmissions and 5-speed transaxles, hydraulic or hydrostatic wheel motors, cutter decks and engine decks or any item exceeding United Parcel Service size and weight restrictions.

Due to UPS restrictions, aerosol spray paint is considered a hazardous material and cannot be shipped via UPS next day or Second Day Air.

Exmark Manufacturing stocks a limited supply of parts for transaxles, pumps and wheel motors. These parts can be ordered for Next Day Air shipment but will not be guaranteed per the Parts Plus Program.

CONGRATULATIONS on the purchase of your Exmark Mower. This product has been carefully designed and manufactured to give you a maximum amount of dependability and years of trouble-free operation.

OPERATOR'S MANUAL

This manual contains assembly, operating, maintenance, adjustment and safety instructions for your Exmark mower.

BEFORE OPERATING YOUR MOWER, CAREFULLY READ THIS MANUAL IN ITS ENTIRETY.

By following the operating, maintenance and safety instructions, you will prolong the life of your mower, maintain its maximum efficiency and promote safe operation.

If additional information is needed, or should you require trained mechanic service, contact your authorized Exmark equipment dealer or distributor.

All Exmark equipment dealers and distributors are kept informed of the latest methods of servicing and are equipped to provide prompt and efficient service in the field or at their service stations. They carry ample stock of service parts or can secure them promptly for you from the factory.

All Exmark parts are thoroughly tested and inspected before leaving the factory, however, attention is required on your part if you are to obtain the fullest measure of satisfaction and performance.

If you need to order replacement parts from your dealer, always give the model number and serial number of your mower as well as the quantity, part number and description of the part needed.

The serial number plate is located on the right side of the console. We suggest you record the numbers below for ready reference.

Model No. _____

Serial No. _____

Date Purchased _____

Purchased From _____

**PASTE LABEL FROM
LITERATURE PACKET HERE**


OR

TABLE OF CONTENTS

1. SAFETY	PAGE
1.1 Safety Alert Symbol	1
1.2 Training	1
1.3 Preparation	1-2
1.4 Operation	2-3
1.5 Maintenance & Storage	4-5
1.6 Safety Signs	5-7
2. SPECIFICATIONS	
2.1 Model Numbers	8
2.2 Engine	8
2.3 Fuel System	8
2.4 Electrical System	8-9
2.5 Operator Controls	9
2.6 Seat	9
2.7 Hydrostatic Ground Drive System	9
2.8 Tires & Wheels	10
2.9 Cutting Deck	10
2.10 Dimensions	10
3. ASSEMBLY INSTRUCTIONS	
3.1 Uncrate Mower	11
3.2 Install Drive Wheels	11
3.3 Check Tire Pressure	11
3.4 Install Seat Retaining Rod	11
3.5 Install Motion Control Levers	11
3.6 Position Discharge Chute	12
3.7 Service Engine	12
3.8 Service Battery	12
4. OPERATION INSTRUCTIONS	
4.1 Controls	13-15
4.2 Pre-Start	15
4.3 Mowing	15-16
4.4 Transporting	16
5. MAINTENANCE & ADJUSTMENTS	
5.1 Periodic Maintenance	16-23
5.2 Adjustments	23-29
6. TROUBLE SHOOTING	29-31
7. ELECTRICAL DIAGRAM	32
8. HYDRAULIC DIAGRAM	33
9. WARRANTY	34-35

1. SAFETY

1.1 SAFETY ALERT SYMBOL

THIS SAFETY ALERT SYMBOL  IS USED BOTH IN THIS MANUAL AND ON THE MACHINE TO IDENTIFY IMPORTANT SAFETY MESSAGES WHICH MUST BE FOLLOWED TO AVOID ACCIDENTS. THIS ALERT SYMBOL MEANS:

**ATTENTION! BECOME ALERT!
YOUR SAFETY IS INVOLVED!**

The safety alert symbol appears above information which alerts you of unsafe actions or situations and will be followed by the word **DANGER**, **WARNING**, or **CAUTION**.

When used with the word DANGER: IT DENOTES THAT AN EXTREME HAZARD EXISTS WHICH WOULD RESULT IN HIGH PROBABILITY OF DEATH OR IRREPARABLE INJURY IF PROPER PRECAUTIONS ARE NOT TAKEN.

When used with the word WARNING: IT DENOTES THAT A HAZARD EXISTS WHICH CAN RESULT IN INJURY OR DEATH IF PROPER PRECAUTIONS ARE NOT TAKEN.

When used with the word CAUTION: IT DENOTES A REMINDER OF SAFETY PRACTICES OR DIRECTS ATTENTION TO UNSAFE PRACTICES WHICH COULD RESULT IN PERSONAL INJURY IF PROPER PRECAUTIONS ARE NOT TAKEN.

1.2 TRAINING

- 1.2.1 Regard the Exmark mower as a piece of power equipment and teach this regard to all who operate this unit.
- 1.2.2 Read the instructions carefully. Familiarize yourself with the controls and the proper use of the equipment.
- 1.2.3 Never allow children, teenagers, or people unfamiliar with these instructions to use the mower.
- 1.2.4 Avoid mowing while people, especially children or pets, are nearby. Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.

1.3 PREPARATION

- 1.3.1 The use of personal protective equipment, such as (but not limited to) protection for the eyes, ears, feet and head is recommended.
- 1.3.2 While mowing, always wear substantial footwear and long trousers. Do not operate equipment when barefoot or when wearing open sandals.
- 1.3.3 Thoroughly inspect the area where the equipment is to be used and remove all stones, sticks, wires, bones and other foreign objects which may damage the equipment or cause personal injury to the operator or bystanders.

 **DANGER**

- **DO NOT** operate the engine in a small confined area where dangerous carbon monoxide fumes can collect.

WARNING

- Fuel is *Highly Flammable*. **DO NOT** smoke while refueling. Refuel only in a well ventilated area, or refuel outdoors.
- Store fuel in containers specifically designed for this purpose.
- Add fuel before starting the engine. Never remove the cap of the fuel tank or add fuel when engine is running or when the engine is hot.
- If fuel is spilled, **DO NOT** attempt to start the engine. Move away from the area of the spill and avoid creating any source of ignition until fuel vapors have dissipated.

1.4 OPERATION

- 1.4.1 Give complete, undivided attention to the job at hand.
- 1.4.2 Mow only in daylight or good artificial light. **NEVER** carry passengers. **DO NOT** operate the mower when children or others are in the area.
- 1.4.3 When feasible, avoid operating the equipment in wet grass.
- 1.4.4 Use **EXTREME** caution when mowing and/or turning on slopes as loss of traction and/or tipover could occur. Drive slower on slopes. **DO NOT** mow slopes greater than 15 degrees. Watch for ditches, holes, rocks, dips, and rises which change the operating angle. Keep away from drop-offs and steep banks. Avoid sudden starts when mowing uphill - mower may tip backwards. Loss of traction may occur going downhill - weight transfer to the front wheels may cause drive wheels to slip and cause loss of braking. **DO NOT** mow slopes when grass is wet - slippery conditions affect steering and reduce traction and braking. The operator is responsible for safe operation on slopes.
- 1.4.5 Use **EXTREME** caution when backing up. **LOOK BEHIND YOU!!**
- 1.4.6 Stop the blades when crossing surfaces other than grass; and when transporting the mower to and from the area to be mowed.
- 1.4.7 Never operate the mower with defective guards, shields, or covers. Always have safety shields, guards, switches, and other devices in place and in proper working condition.
- 1.4.8 **DO NOT** change the engine governor settings or overspeed the engine. Operating an engine at excessive speed may increase the hazard of personal injury.
- 1.4.9 Disengage blade drive before starting engine.
- 1.4.10 Start the engine carefully with feet well away from the blades.
- 1.4.11 Keep hands, feet and clothing away from rotating parts while the mower is being operated.
- 1.4.12 Stop the engine and remove ignition key:
 - Before checking, cleaning or working on the mower.

- After striking a foreign object (inspect the mower for damage and make repairs before restarting and operating the mower).
- Before clearing blockages.
- Whenever you leave the mower.

Stop the engine:

- Before refueling.
- Before dumping the grass catcher.

1.4.13 Before stopping the engine, return the throttle control to the idle position for 30 seconds to allow the engine to cool down.

1.4.14 The fuel system is provided with a shut-off valve. The fuel shut-off valve is used to shut off the fuel:

- When the machine will not be used for a few days.
- During transport to and from the job.
- When parked inside a building.

1.4.15 This mower was designed for one operator only. Keep all others away from mower during operation.

1.4.16 **Do Not** mow without the grass deflector in place.

CAUTION

- **Failure to follow safety instructions and cautious operating practices can result in serious injury.**

1.4.17 If jump starting is required:

- a) connect the positive (+) power cable from the booster battery to the positive terminal post on the starter solenoid switch (this post has the positive battery cable attached to it).
- b) connect the negative or ground cable (-) to the negative post from the booster battery to any engine deck ground, preferably the engine block as far away from the battery as possible.
- c) disconnect battery cables in the reverse order after starting.

CAUTION

- **Although hazard control and accident prevention partially are dependent upon the design and configuration of the equipment, these factors are also dependent upon the awareness, concern, prudence and proper training of the personnel involved in the operation, transport, maintenance and storage of the equipment. It is essential that all Operator Safety Mechanisms be connected and in operating condition prior to use for mowing.**

