



MODEL NO. 38052 - 2000001 & UP

OPERATOR'S MANUAL

521 SNOWTHROWER



SAFETY INSTRUCTIONS

The 521 SNOWTHROWER meets or exceeds the Outdoor Power Equipment Institute's safety standards for snowthrowers; thus, Toro proudly displays the OPEI safety seal. To ensure maximum safety, best performance, and to gain knowledge of the product, it is essential that you or any other operator of the snowthrower read and understand the contents of this manual before the engine is ever started. Pay particular attention to the safety alert symbol  which means CAUTION, WARNING OR DANGER — "personal safety instruction." Read and understand the instruction because it has to do with safety. Failure to comply with instruction may result in personal injury.

The following instructions are comparable to the instructions For Safe Snowthrowing adopted by the American National Standards Institute (ANSI). The snowthrower is designed and tested to offer reasonably safe service; however, failure to comply with the following instructions **MAY RESULT IN PERSONAL INJURY**.

WARNING: Engine exhaust contains carbon monoxide which is an odorless, deadly poison. Carbon monoxide is also known to the State of California to cause birth defects. Do not run engine indoors or in an enclosed area.

BEFORE OPERATING

1. Read and understand the contents of this manual before operating the snowthrower. Become familiar with all controls and know how to stop the engine quickly.
2. Keep everyone, especially children and pets, away from snowthrower and area of operation. Never allow children to operate the snowthrower. Adults should operate the snowthrower only after reading this manual.
3. Inspect area thoroughly where snowthrower will be used. Remove doormats, sleds, boards, sticks, wire, and any other foreign objects which might be picked up and thrown by the snowthrower.
4. Keep all shields and safety devices in place. If a shield, safety device or decal is illegible, damaged or lost, repair or replace it before beginning operation. Also, tighten any loose nuts, bolts or screws.
5. Wear adequate winter clothing and rubber boots that will ensure proper footing on slippery surfaces. Do not wear loose fitting clothing that could possibly get caught in moving parts.
6. Adjust both skids so auger housing clears gravel or crushed rock surfaces.
7. Before starting the engine, ensure auger drive control and traction (wheel drive) control are in disengaged position.

8. Always use a grounded, three wire plug and cord to start snowthrower equipped with an electric starter. Extension cord must be connected to a properly grounded outlet.

9. Fill fuel tank with gasoline before starting the engine. Avoid spilling any gasoline. Because gasoline is highly flammable, handle it carefully. **DO NOT SMOKE WHILE HANDLING GASOLINE.**

- A. Use an approved gasoline container.
- B. Fill fuel tank outdoors, not indoors. **NEVER ADD FUEL TO AN ENGINE THAT IS RUNNING OR HOT.** Engine must be cool to reduce potential fire hazard.
- C. Open doors if engine will be started in the garage because exhaust fumes are dangerous and could possibly be deadly. Do not run engine indoors.
- D. Wipe up any spilled gasoline. Reinstall gasoline container cap and snowthrower fuel tank cap securely before starting the engine.

WHILE OPERATING

10. ROTATING IMPELLER OR AUGER CAN CUT OFF OR INJURE FINGERS OR HANDS. STAY BEHIND THE HANDLES AND AWAY FROM DISCHARGE OPENING WHILE OPERATING THE SNOWTHROWER. KEEP FACE, HANDS, FEET, AND ANY OTHER PART OF YOUR BODY OR CLOTHING AWAY FROM CONCEALED, MOVING OR ROTATING PARTS.

11. BEFORE ADJUSTING, CLEANING, REPAIRING, AND INSPECTING THE SNOWTHROWER, AND BEFORE UNCLOGGING THE DISCHARGE CHUTE, SHUT ENGINE OFF AND WAIT FOR ALL MOVING PARTS TO STOP. ALSO, PULL WIRE OFF SPARK PLUG AND KEEP WIRE AWAY FROM THE PLUG TO PREVENT ACCIDENTAL STARTING. USE A STICK, NOT YOUR HAND, TO REMOVE OBSTRUCTIONS FROM DISCHARGE CHUTE.

Toro 521 User Manual

Janak Jani



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Handbook of South American Indians Julian Haynes Steward,1946 *Handbook of South American Indians: Index* Julian Haynes Steward,1959 **Mining Journal** ,1914 *1990 Census of Population and Housing* ,1993 **A Compendium of**

Ancient and Modern Geography, for the use of Eton School. [With plates.] Aron ARROWSMITH (the Younger.),1831

The Handbook of Jamaica for ... ,1913 **Documents of the Coronado Expedition, 1539-1542** Richard Flint,Shirley Cushing Flint,2012-04-15 Originally published Dallas Southern Methodist University Press 2005 **Field & Stream** ,1971-04 FIELD STREAM America s largest outdoor sports magazine celebrates the outdoor experience with great stories compelling photography and sound advice while honoring the traditions hunters and fishermen have passed down for generations **A Companion to the Poema de mio Cid** ,2018-04-10 This volume brings together a number of

distinguished scholars in the field of Poema de mio Cid studies It provides an informed introduction to key literary aspects of the poem and thoroughly examines many of the complex issues that are crucial for a comprehensive understanding of the work historical context ideological motivations prosification in medieval chronicles the poem s place in the canon of Spanish literature Equally important are the new findings that have been put forward since the 1970s when scholars started to challenge Ram n Men ndez Pidal s theories that had dominated the philological discourse since the beginning of the twentieth century Contributors are Matthew Bailey Simon Barton Francisco Bautista Juan Carlos Bayo Julve Federico

Corriente Leonardo Funes Luis Galv n Fernando G mez Redondo Eukene Lacarra Lanz Salvatore Luongo Georges Martin Alberto Montaner Javier Rodr guez Molina Mercedes Vaquero Roger Wright and Irene Zaderenko Peptide Therapeutics Ved Srivastava,2019-08-16 Peptide therapy has become a key strategy in innovative drug development however one of the potential barriers for the development of novel peptide drugs in the clinic is their deficiencies in clearly defined chemistry manufacturing and controls CMC strategy from clinical development to commercialization CMC can often become a rate limiting step due to lack of knowledge and lack of a formal policy or guidelines on CMC for peptide based drugs Regulators use a risk based approach reviewing applications on a case by case basis Peptide Therapeutics Strategy and Tactics for Chemistry Manufacturing and Controls covers efficient manufacturing of peptide drug substances a review of the process for submitting applications to the regulatory authority for drug approval a holistic approach for quality attributes and quality control from a regulatory perspective emerging analytical tools for the characterisation of impurities and the assessment of stability This book is an essential reference work for students and researchers in both academia and industry with an interest in learning about CMC and facilitating development and manufacture of peptide based drugs *Year 5* Garda Turner,2004

Bergey's Manual® of Systematic Bacteriology James T. Staley,Don J. Brenner,Noel R. Krieg,2006-07-25 Includes a description of the Alpha Beta Delta and Epsilonproteobacteria 1256 pages 512 figures and 371 tables This large taxa include many well known medically and environmentally important groups Especially notable are Acetobacter Agrobacterium

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United States Bulletin Service, 1922

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web to separate the lanthanides from other elements occurring with them they are chemically combined with specific substances to form lanthanide compounds with low solubility oxalates and fluorides for example a process known as ion exchange is then used to separate the lanthanides from each other in this process a solution of the

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web dec 12 2019 here s a list of the 15 elements that are lanthanides which run from atomic number 57 lanthanum or Ln and 71 lutetium or Lu lanthanum symbol Ln atomic number 57 cerium symbol Ce atomic number 58 praseodymium symbol Pr atomic number 59 neodymium symbol Nd atomic number 60 promethium symbol Pm

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web jan 1 1997 the lanthanides comprise the largest naturally occurring group in the periodic table there are more than 100 minerals known to contain lanthanides but the only two of commercial importance are monazite and bastnaesite the chapter discusses the production of lanthanide elements by electrolysis of fused salts and by metallothermic reduction

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web the fifteen elements shown in table pageindex 1 from lanthanum La 4f 0 to lutetium Lu 4f 14 are lanthanoids Ln may be used as a general symbol for the lanthanoid elements although lanthanoids scandium Sc and yttrium Y are sometimes called rare earth elements they are relatively abundant in the earth s crust

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web nov 1 1998 production of lanthanides has shown a continuous increase in recent years 50 taking all these facts into account it is reasonable to consider the development of corrosion protection methods using this family of compounds at first

the lanthanide elements principally cerium were used in protection against corrosion at high

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web lanthanides metals peptides and proteins selectivity abstract the essential biological role of rare earth elements lay hidden until the discovery in 2011 that lanthanides are specifically incorporated into a bacterial methanol dehydrogenase

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web jan 1 2000 powell describes displacement chromatography and elution chromatography as the two principal methods for separating lanthanide cations by ion exchange chromatography in displacement chromatography the ions to be separated are first sorbed onto a column of the resin the analyte metals are eluted from the column

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web feb 4 2021 the lanthanides are located on the top row of the two rows of elements found below the main body of the periodic table placing the lanthanides and the actinides the row below the lanthanides below the other elements is just a matter of aesthetics the lanthanides belong to period 6 like cesium barium and hafnium