Owner's Manual & Safety Instructions

Save This Manual Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

19k





Battery and charger sold separately

Visit our website at: http://www.harborfreight.com Email our technical support at: productsupport@harborfreight.com

When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-888-866-5797 as soon as possible.

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No portion of this manual or any artwork contained herein may be reproduced in any shape or form without the express written consent of Harbor Freight Tools.

Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein.

Tools required for assembly and service may not be included.

AWARNING

Read this material before using this product. Failure to do so can result in serious injury. SAVE THIS MANUAL.

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WARNING SYMBOLS AND DEFINITIONS			
A	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.		
▲ DANGER	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.		
▲WARNING	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.		
ACAUTION	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.		
NOTICE CAUTION	Addresses practices not related to personal injury.		

IMPORTANT SAFETY INSTRUCTIONS

AWARNING

When using electric gardening appliances, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury, including the following:

READ ALL INSTRUCTIONS

Gardening Appliance Safety

- Avoid Dangerous Environment Do not use appliances in damp or wet locations.
- 2. Do Not Use In Rain.
- 3. **Keep Children Away -** All visitors should be kept at a distance from work area.
- 4. Dress Properly Do not wear loose clothing or jewelry. They can be caught in moving parts. Use of rubber gloves and substantial footwear is recommended when working outdoors. Wear protective hair covering to contain long hair.
- 5.

Wear ANSI-approved safety goggles, hard hat and heavy-duty rubber work gloves. Use face or dust mask if operation is dusty.



Wear thick jeans and steel-toed work boots to help prevent injury caused by flying debris.

- 7. **Use Right Appliance -** Do not use appliance for any job except that for which it is intended.
- 8. **Avoid Unintentional Starting -**Do not carry appliance with finger on switch.
- 9. Don't grasp the exposed cutting blades or cutting edges when picking up or holding the appliance.
- Do Not Force Appliance It will do the job better and with less likelihood of injury at the rate for which it was designed.
- Do not Overreach Keep proper footing and balance at all times.
- Stay Alert Watch what you are doing. Use common sense. Do not operate appliance when you are tired.
- 13. **Store Idle Appliances Indoors -** When not in use, appliances should be stored indoors in dry, and high or locked-up place out of reach of children.

- 14. Maintain Appliance With Care Keep cutting edge sharp and clean for best performance and to reduce the risk of injury. Follow instructions for lubricating and changing accessories. Keep handles dry, clean, and free from oil and grease.
- 15. Check Damaged Parts Before further use of the appliance, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other condition that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by a qualified technician unless indicated elsewhere in this manual.
- 16. Keep guards in place and in working order.
- 17. Keep hands and feet away from cutting area.
- 18. Wear full eye protection and protective clothing.
- 19. If electrolyte contacts the skin, wash it off immediately with water.
- 20. If electrolyte contacts the eyes, flush thoroughly and immediately with water. Seek medical attention.

- 21. Stop working when you feel tired or exhausted. Make regular breaks to rest.
- 22. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure.
- 23. When servicing use only identical replacement parts.
- 24. **Disconnect Appliance -** Remove Battery Pack when not in use, before servicing, when changing accessories such as blades, and the like.
- 25. Carefully follow cutting procedures explained in this manual. They are specifically planned to reduce risk to the operator.
- 26. Only replace the line on this appliance with the line material and diameter of line listed on the Specifications table. Other materials, such as wire, rope, or blades can damage the appliance and be forcefully and dangerously ejected from the appliance upon breaking.

Battery tool use and care

- Prevent unintentional starting. Ensure the switch is in the off-position before connecting to battery pack, picking up or carrying the power tool. Carrying the power tool with your finger on the switch or energizing power tool that have the switch on invites accidents.
- Disconnect the battery pack from the power tool before making any adjustments, changing accessories, or storing power tool. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- 4. Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.

- 5. When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.
- Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
- 7. Do not use a battery pack or power tool that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.

- 8. Do not expose a battery pack or power tool to fire or excessive temperature. Exposure to fire or temperature above 265°F may cause explosion.
- 9. Follow all charging instructions and do not charge the battery pack or power tool outside of the temperature range specified in the instructions. Charging improperly or at temperatures outside of the specified range may damage the battery and increase the risk of fire.
- Have servicing performed by a qualified repair person using only identical replacement parts. This will ensure that the safety of the product is maintained.
- Do not modify or attempt to repair the power tool or the battery pack except as indicated in the instructions for use and care.

The battery Charger gets hot during use.
The Charger's heat can build up to
unsafe levels and create a fire
hazard if it does not receive

adequate ventilation, due to an electrical fault, or if it is used in a hot environment. Do not place the Charger on a flammable surface. Do not obstruct any vents on the Charger. Especially avoid placing the Charger on carpets and rugs; they are not only flammable, but they also obstruct vents under the Charger. Place the Charger on a stable, solid, nonflammable surface (such as a stable metal workbench or concrete floor) at least 1 foot away from all flammable objects, such as drapes or walls. Keep a fire extinguisher and a smoke detector in the area. Frequently monitor the Charger and Battery Pack while charging.

Lithium Battery Safety Warnings



LITHIUM BATTERIES STORE A LARGE AMOUNT OF ENERGY AND WILL VENT FIRE OR EXPLODE IF MISTREATED:



- Keep
 Battery Pack dry.
- 2. DO NOT DO ANY OF THE FOLLOWING TO THE BATTERY PACK:
 - a. Open,
 - b. Drop,
 - c. Short-circuit,

- d. Puncture.
- e. Incinerate, or
- f. Expose to temperatures greater than 104°F.
- 3. Charge Battery Pack only according to its Charger's instructions.
- 4. Inspect Battery Pack before every use; do not use or charge if damaged.

Vibration Hazard

This appliance vibrates during use. Repeated or long-term exposure to vibration may cause temporary or permanent physical injury, particularly to the hands, arms and shoulders. To reduce the risk of vibration-related injury:

- . Anyone using vibrating appliances regularly or for an extended period should first be examined by a doctor and then have regular medical checkups to ensure medical problems are not being caused or worsened from use. Pregnant women or people who have impaired blood circulation to the hand, past hand injuries, nervous system disorders, diabetes, or Raynaud's Disease should not use this appliance. If you feel any symptoms related to vibration (such as tingling, numbness, and white or blue fingers), seek medical advice as soon as possible.
- 2. Do not smoke during use. Nicotine reduces the blood supply to the hands and fingers, increasing the risk of vibration-related injury.
- 3. Wear suitable gloves to reduce the vibration effects on the user.
- 4. Use appliances with the lowest vibration when there is a choice between different processes.
- 5. Include vibration-free periods each day of work.
- Grip appliance as lightly as possible (while still keeping safe control of it). Let the appliance do the work.
- 7. To reduce vibration, maintain the appliance as explained in this manual. If any abnormal vibration occurs, stop use immediately.

General Safety

- The spool will continue to rotate for a few seconds after use. Allow it to stop completely and remove Battery Pack before putting the appliance down, making any adjustments, or servicing the appliance.
- 2. Do not use in rain, snow, sprinklers, or wet grass. Do not rinse off the Trimmer.
- Use only during daylight hours.
- Carefully inspect the spool housing and guard before inserting Battery Pack in the Trimmer. Do not use Trimmer if any part is cracked or damaged.
- 5. Do not use appliance for other than intended use.

- Maintain labels and nameplates on the appliance.
 These carry important safety information.
 If unreadable or missing, contact
 Harbor Freight Tools for a replacement.
- 7. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.



SAVE THESE INSTRUCTIONS.

Grounding

AWARNING



TO PREVENT ELECTRIC SHOCK AND DEATH FROM INCORRECT GROUNDING:

Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. Do not modify the power cord plug provided with the charger. Do not use the charger if the power cord or plug is damaged. If damaged, have it repaired by a service facility before use. If the plug will not fit the outlet, have a proper outlet installed by a qualified electrician.

Extension Cords

Note: Extension cords must not be used with this item's Charger.

Symbology

V	Volts
~	Alternating Current
Α	Amperes
n ₀ xxxx/min.	No Load Revolutions per Minute (RPM)
	WARNING marking concerning Risk of Eye Injury. Wear ANSI-approved safety goggles with side shields.

	Read the manual before set-up and/or use.
	WARNING marking concerning Risk of Fire. Do not cover Charger ventilation ducts. Charge on fireproof surface only.
A	WARNING marking concerning Risk of Electric Shock. Properly connect Charger's power cord to appropriate outlet.

Specifications

	56936	56939
Battery Type	Atlas Li-lon 40V (57008) or 40/80V (57014) (sold separately)	Atlas Li-Ion 40/80V (57014) (sold separately)
Charger Type	56993 or 56997 Atlas Li-ion	
No Load Speed	6000 RPM	
Replacement Line Type	.080" Nylon	

Ambient Temperature Ranges			
Operation		6.8 - 104°F	
Battery charging		39 - 104°F	
String trimmer storage		-4 - 158°F	
Battery storage	1 year	32 - 73°F	
	3 month	32 -113°F	
	1 month	32 -140°F	

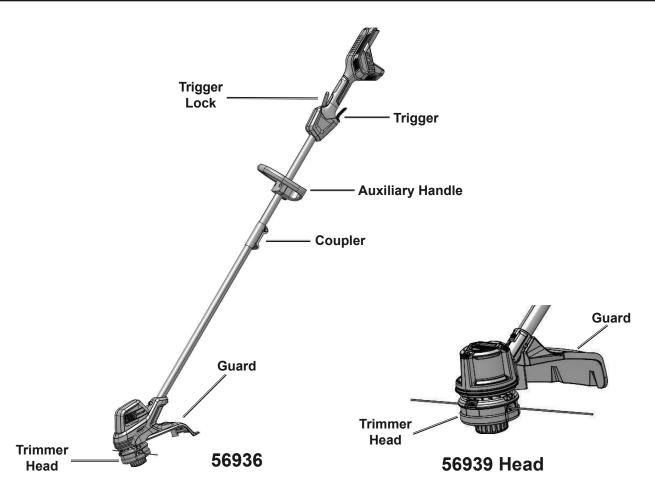
Note: Batteries and Battery Chargers sold separately.

Setup - Before Use:



Read the <u>ENTIRE</u> IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Functions



Assembly Instructions



Read the <u>ENTIRE</u> IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

AWARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:

Release Trigger of the appliance before performing any procedure in this section.

Note: For additional information regarding the parts listed in the following pages, refer to the Assembly Diagram near the end of this manual.

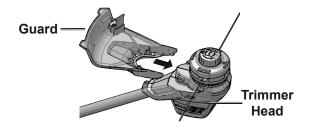
Install Guard

<u>WARNING!</u> TO PREVENT SERIOUS INJURY FROM FLYING DEBRIS:

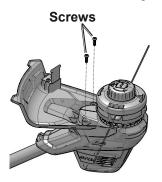
Install the guard only in the orientation shown.

56936 Guard Attachment:

- 1. Turn Trimmer Head upside down and remove two Screws from head.
- 2. Place Guard onto Trimmer Head. See below.



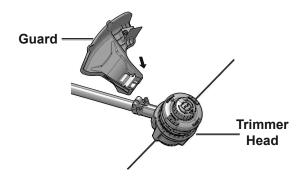
3. Align holes on the Guard with holes on Trimmer Head and use Screws to secure together.



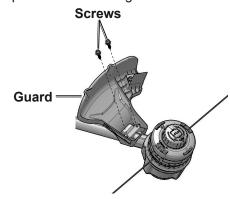
4. Carefully remove the protective tape/ cover from the blade on the guard.

56939 Guard Attachment:

- 1. Turn Trimmer Head upside down and remove Screws, Washers, and Spacers from Head.
- 2. Place Guard onto Trimmer Head.



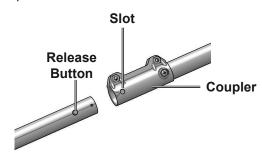
3. Align holes on the Guard with holes on Trimmer Head and use Screws, Washers, and Spacers to secure together.



4. Carefully remove the protective tape/ cover from the blade on the guard.

Assemble Shaft

- 1. Loosen the screw on the open end of the Coupler.
- 2. Align Release Button with the open slot on the Coupler and slide the two shafts into each other.

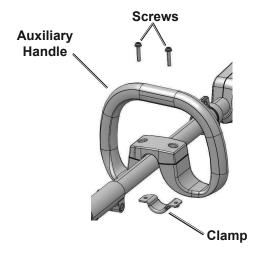


- 3. Adjust the lower shaft until Release Button locks into Slot.
- 4. Tighten coupler screw with Hex Wrench.



Install Auxiliary Handle

- Use a screwdriver to remove Screws from Auxiliary Handle.
- Place Auxiliary Handle and Clamp onto the shaft and use Screws to connect together.



Adjust Handle to desired position and tighten Screws to secure.

Operating Instructions



Read the <u>ENTIRE</u> IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

AWARNING

TO PREVENT SERIOUS INJURY:

Before operating the gardening appliance, put on ANSI-approved safety goggles, closed-toe work boots, long pants, and other safety gear. Safety goggles and other safety gear are sold separately.

TO PREVENT SERIOUS INJURY AND PROPERTY DAMAGE:

Inspect the area before using the String Trimmer. Remove all hard objects from work area. Use both hands when operating Trimmer.

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:

Make sure that the Power Switch/Trigger is in the off-position and remove Battery Pack before setting up the appliance.

Charging Battery Pack

Charge battery before using this tool. Follow instructions included with battery charger (sold separately).

Installing and Removing Battery Pack

- 1. To install: Slide Battery Pack into slot on back of String Trimmer until it clicks into place.
- 2. To remove: Press Battery Pack Release Button and pull Battery Pack out of slot.

Bump Feed

Note: Trimmer features a bump feed mechanism to adjust line length after repeated use.

- 1. Adjust length of cutting line by bumping Head against the ground during operation.
- 2. The line will lengthen slightly the next time the trimmer is used. Excess line will be cut off by the blade in the guard.

Adjust Cutting Diameter

- Remove Battery Pack.
- 2. Remove screws from cut-off blade under guard.
- 3. Turn cut-off blade 180°.
- 4. Tighten blade screws to secure.

Trimmer Operation

Install fully-charged Battery Pack.

NOTICE: To prevent damage to tool or property, avoid contact with fences, trees, shrubs and the like.

- Holding Trimmer with both hands, press Trigger Lock, then press Trigger.
- DO NOT REST TRIMMER ON GROUND.

- 4. Do not force the Trimmer. Use the tip of the Line to do the cutting.
- 5. Release Trigger when done.
- 6. When finished, to prevent accidents:
 - Remove battery pack.
 - Wipe external surfaces of the appliance with clean cloth. Store in an indoor dry area out of reach of children.

User-Maintenance and Storage



Procedures not specifically explained in this manual must be performed only by a qualified technician.

AWARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION OR ELECTRIC SHOCK: Release the Trigger and remove the Battery Pack before performing any inspection, maintenance, or cleaning procedures.

TO PREVENT SERIOUS INJURY FROM APPLIANCE FAILURE: Do not use damaged equipment. If abnormal noise or vibration occurs, have the problem corrected before further use.

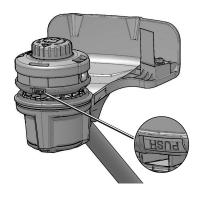
Cleaning, Maintenance, and Lubrication

- BEFORE EACH USE, inspect the general condition of the appliance. Check for:
 - loose hardware,
 - · misalignment or binding of moving parts,
 - · cracked or broken parts,
 - · damaged electrical wiring, and
 - any other condition that may affect its safe operation.

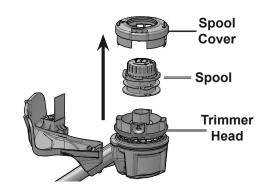
- 2. **AFTER USE**, Remove Battery Pack and wipe external surfaces of the appliance with clean cloth.
- Li-Ion BATTERY MUST BE RECYCLED OR DISPOSED OF PROPERLY.
 Do not short, incinerate or open battery.
- 4. Store Battery Pack, Charger, and tool in dry, indoor area out of reach of children and away from metal objects (i.e., paperclips, coins) to prevent shorting.
- 5. All parts are permanently lubricated. Do not use additional lubrication.

Replacing Spool

- 1. Remove Battery Pack.
- Press both tabs marked 'Push' on the Trimmer Head to release Spool Cover.



Remove Spool Cover, then remove Spool from Trimmer Head.



- 4. Clean interior of Trimmer Head with soft cloth.
- 5. Replace Spool.
- Replace Spool Cover.

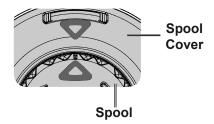
Replacing Nylon Line

AWARNING

TO PREVENT SERIOUS INJURY:

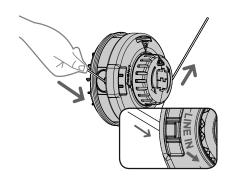
Only replace the line on this appliance with the line material and diameter of line listed on the Specifications table. Other materials, such as wire, rope, or blades can damage the appliance and be forcefully and dangerously ejected from the appliance upon breaking.

- 1. Remove Battery Pack.
- 2. Press tabs on Spool Cover, remove Spool Cover, then remove Spool from Trimmer Head.
- 3. Remove old line from Spool.
- 4. Clean interior of Trimmer Head with soft cloth.
- 5. Replace Spool and Spool Cover, making sure both triangles are lined up with each other.



NOTICE: For best performance with 56936, use a line that is .080" in diameter and no more than 13' in length. For 56939, use a line that is .095" in diameter and no more than 10' in length.

6. Insert Nylon Line into hole marked 'Line In' and make sure it exits cleanly through the other hole.



- 7. Pull line through until there is an equal length on both sides.
- 8. Turn Spool counterclockwise to feed line into Trimmer Head. Leave 5" of line on each side.

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO.

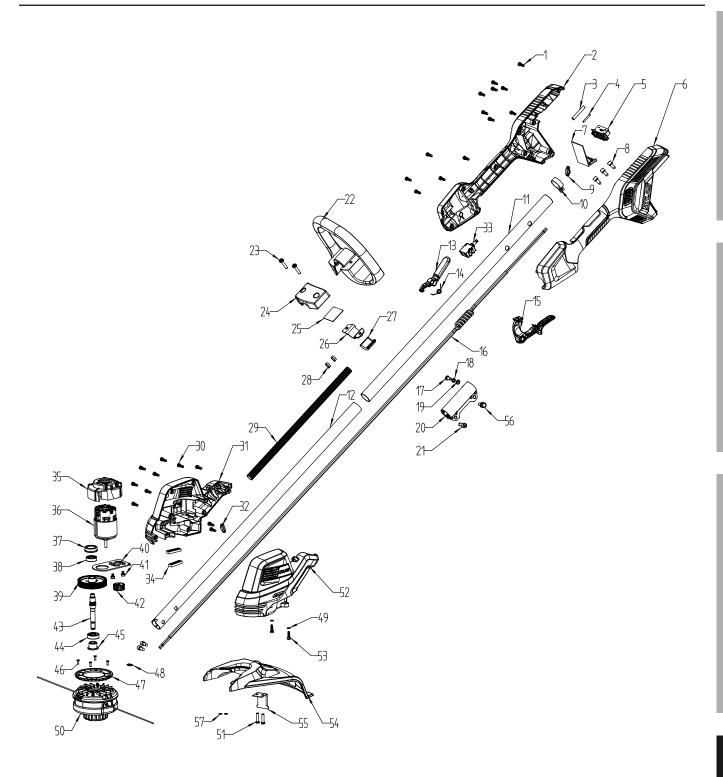
Note: If product has no serial number, record month and year of purchase instead.

56936 Parts List

D (- C1
Part	Description	Qty
1	Hex Socket Screw	13
2	Right Handle	1
3	Heat-Shrink Tube	1
4	Heat-Shrink Tube	1
5	Male Terminal Assembly	1
6	Left Handle	1
7	PCB	1
8	Connector	5
9	Wire Retaining Plate	1
10	U-Shaped Clamp	1
11	Upper Tube	1
12	Lower Tube	1
13	Anti-Lock Button	1
14	Lockout Torsional Spring	1
15	Switch Trigger	1
16	Spring Wire	1
17	Pan Head Screws With Cross Recess	1
18	Spring Washer	1
19	Flat Washer	1
20	Tube Binder	1
21	Bolt	1
22	Assist Handle	1
23	Cross Recessed Hex Bolt	2
24	Auxiliary Handle Cover	1
25	Rubber Pad	1
26	Wire Retaining Plate	1
27	Heat-Shrink Tube	1
28	Ribbon	2
29	Corrugated Pipe	1

Part	Description	Qty
30	Hex Socket Screw	10
31	Right Housing	1
32	Wire Retaining Plate	1
33	Speed-Control Switch	1
34	Dust Sponge	2
35	Volute	1
36	Motor	1
37	Shaft Sleeve	1
38	Deep Groove Ball Bearing	1
39	Spur Gear	1
40	Motor Fixed Plate	1
41	Hex Socket Head Cap Screw	2
42	Spur Gear	1
43	Shaft	1
44	Deep Groove Ball Bearing	1
45	Shaft Sleeve	1
46	Cross Recessed Screw	4
47	Fan Blade Ring	1
48	Circlip	1
49	Spring Washer	2
50	Head Assembly	1
51	Cross Recessed Screw	2
52	Right Housing	1
53	Cross Recessed Screw	2
54	Guard	
55	Blade	1
56	Hex Head Bolt	1
57	Spring Washer	2

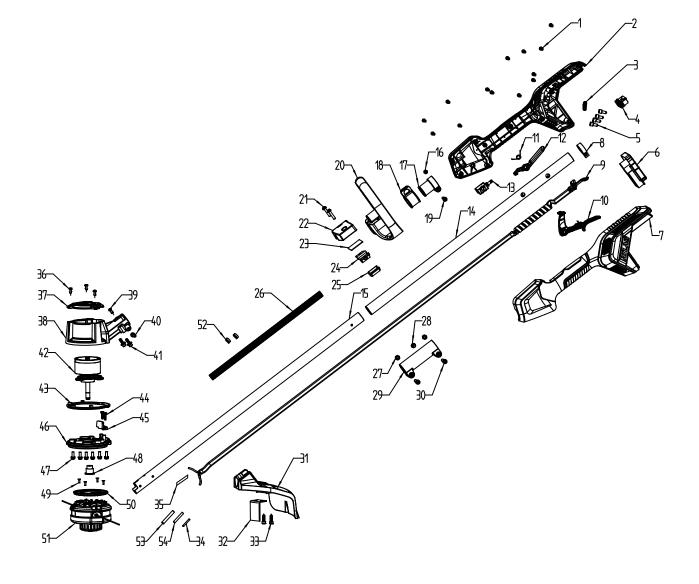
Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts. Parts may not be interchangeable. Specify item number when ordering.



Part	Description	Qty
1	Hex Lobular Socket Thread Screw	13
2	Right Handle	1
3	Wire Retaining Plate	1
4	Male Terminal Assembly	1
5	Connector	4
6	PCB	1
7	Left Handle	1
8	U-Shaped Clamp	1
9	Spring Wire	1
10	Switch Trigger	1
11	Lockout Torsional Spring	1
12	Anti-Lock Button	1
13	Speed-Control Switch	1
14	Upper Tube	1
15	Lower Tube	1
16	Nut	1
17	Harness Clip	1
18	Harness Buckle	1
19	Bolt	1
20	Assist Handle	1
21	Bolt	2
22	Auxiliary Handle Cover	1
23	Rubber Pad	1
24	Wire Retaining Plate	1
25	Heat-Shrink Tube	1
26	Corrugated Pipe	1
27	Nut	2
28	Bolt	1

Part	Description	Qty
29	Tube Binder	1
30	Bolt	2
31	Guard	1
32	Blade	1
33	Bolt	2
34	Heat-Shrink Tube	1
35	Copper Strip	1
36	Hexalobular Socket Pan Head Screw	3
37	Top Cover	1
38	Motor Housing	1
39	Bolt	1
40	Bolt	1
41	Bolt	2
42	Motor	1
43	Rubber Pad	1
44	Bolt	2
45	Wire Retaining Plate	1
46	Motor Fixing Plate	1
47	Bolt	6
48	Shaft Sleeve	1
49	Bolt	4
50	Fan Blade Ring	1
51	Head Assembly	1
52	Ribbon	2
53	Heat-Shrink Tube	1
54	Heat-Shrink Tube	1

Note: Parts may not be interchangeable. Specify item number when ordering.



Limited 90 Day Warranty

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

