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.

100 WAT

DEDERING

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

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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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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					
	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.				
	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.				
	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.				
	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 INFORMATION

General Power Tool Safety Warnings

AWARNING

Read all safety warnings and instructions.

Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool.

Work area safety

- 1. Keep work area clean and well lit. Cluttered or dark areas invite accidents.
- 2. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- 3. Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

Electrical safety

- 1. Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with grounded power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- 2. Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is grounded.
- 3. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

Personal safety

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- Use personal protective equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- 3. Prevent unintentional starting. Ensure the Trigger is in the off-position before connecting to power source, picking up or carrying the tool. Carrying power tools with your finger on the Trigger or energizing power tools that have the Trigger on invites accidents.

Power tool use and care

- 1. Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- 2. Do not use the power tool if the Trigger does not turn it on and off. Any power tool that cannot be controlled with the Trigger is dangerous and must be repaired.
- 3. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.

- 4. Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- If operating a power tool in a damp location is unavoidable, use a Ground Fault Circuit Interrupter (GFCI) protected supply. Use of a GFCI reduces the risk of electric shock.

- 4. Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- 5. Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from hot parts.
- 6. Only use safety equipment that has been approved by an appropriate standards agency. Unapproved safety equipment may not provide adequate protection. Eye protection must be ANSI-approved and breathing protection must be NIOSH-approved for the specific hazards in the work area.
- **OPERATION**

- Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- 5. Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- 6. Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

SETUF

Service

Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

Specific Safety Rules

- Avoid Serious Burns. The Soldering Gun reaches 1000° F. Do not point the Soldering Gun, or turn yourself toward another person while soldering.
- 2. Do not open Soldering Gun. Do not attempt to open and repair this unit. It must be serviced by a qualified technician.
- To prevent electric shock, always de-energize any circuits or wires to be soldered before making connections and soldering.
- Exposure to soldering fumes can increase the risk of developing certain cancers, such as cancer of the larynx and lung cancer. Also, some diseases that may be linked to exposure to soldering fumes are:
 - · Early onset of Parkinson's Disease
 - Heart disease
 - Ulcers
 - · Damage to the reproductive organs
 - · Inflammation of the small intestine or stomach
 - · Kidney damage
 - Respiratory diseases such as emphysema, bronchitis, or pneumonia

- Keep head out of fumes. Do not breathe soldering fumes. Use enough ventilation to keep fumes and gases from breathing zone and general area.
- 6. Never lay the Soldering Gun down where the heated parts can contact flammable materials or electrical wires.
- 7. This product is not a toy. Keep it out of reach of children.
- 8. **Maintain labels and nameplates on the tool.** These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
- Do not leave the tool unattended when it is plugged into an electrical outlet. Turn off the tool, and unplug it from its electrical outlet before leaving.
- 10. 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.





TO PREVENT ELECTRIC SHOCK AND DEATH FROM INCORRECT GROUNDING WIRE CONNECTION:

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 tool. Never remove the

grounding prong from the plug. Do not use the tool 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.

Double Insulated Tools: Tools with Two Prong Plugs

This appliance has a polarized plug (one blade is wider than the other). To reduce the risk of electric shock, this plug is intended to fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a gualified electrician. Do not modify the plug in any way.

wire extension cord. Double Insulated tools can

Using extension cords with inadequately sized wire

of power and possible tool damage. (See Table A.)

causes a serious drop in voltage, resulting in loss

use either a two or three wire extension cord

2. As the distance from the supply outlet increases, vou must use a heavier gauge extension cord.

3. The smaller the gauge number of the wire, the

a 14 gauge cord can carry a higher current than a 16 gauge cord. (See Table A.) 4. When using more than one extension cord to make up the total length, make sure each cord contains at least the minimum wire size required. (See Table A.) 5. If you are using one extension cord for more than one tool, add the nameplate amperes and use the sum to determine the required minimum cord size. (See Table A.)

greater the capacity of the cord. For example,

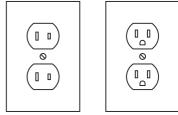
6. If you are using an extension cord outdoors, make

sure it is marked with the suffix "W-A" ("W" in Canada) to indicate it is acceptable for outdoor use.

Double insulated tools may be used in either of the 120 volt outlets shown in the illustration Outlets for 2-Prong Plug.

Extension Cords

1. Grounded tools require a three



Outlets for 2-Prong Plug

and in good electrical condition. Always replace

a damaged extension cord or have it repaired by a qualified electrician before using it.

7. Make sure the extension cord is properly wired

8. Protect the extension cords from sharp objects.

excessive heat, and damp or wet areas.

SAFETY

TABLE A: RECOMMENDED MINIMUM WIRE					
GAUGE FOR EXTENSION CORDS* (120/240 VOLT)					
NAMEPLATE AMPERES	EXTENSION CORD LENGTH)
(at full load)	25´	50´	75´	100´	150´

				••	
(at full load)	25´	50´	75´	100´	150´
0 - 2.0	18	18	18	18	16
2.1 – 3.4	18	18	18	16	14
3.5 - 5.0	18	18	16	14	12
5.1 – 7.0	18	16	14	12	12
7.1 – 12.0	18	14	12	10	-
12.1 – 16.0	14	12	10	-	-
16.1 – 20.0	12	10	-	-	-
* Based on limitin	g the lir	e voltag	je drop	to five v	olts at

150% of the rated amperes.

Item 64056

Symbology

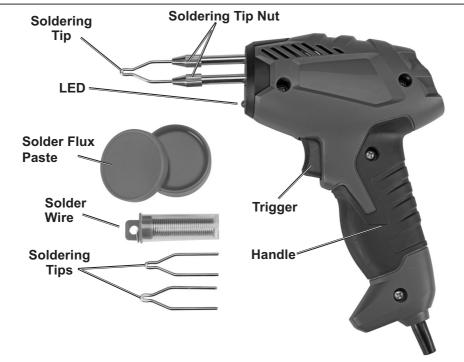
	Double Insulated		WARNING marking concerning Risk of Eye Injury. Wear ANSI-approved safety goggles with side shields.
V	Volts	2	Read the manual before
~	Alternating Current		set-up and/or use. WARNING marking
Α	Amperes		concerning Risk of Fire. Do not cover ventilation ducts. Keep flammable objects away.
n ₀ xxxx/min.	No Load Revolutions per Minute (RPM)		WARNING marking concerning Risk of Electric Shock.
			Properly connect power cord to appropriate outlet.

Specifications

Electrical Rating	120 VAC / 60 Hz / 0.8A
Max Temperature	1000° F

Setup - Before Use:

Components and Controls



SAFETY

MAINTENANCE

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.

Tool Set Up

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION: Make sure that the Trigger is in the off-position and unplug the tool from its electrical outlet before performing any procedure in this section.

Note: For additional information regarding the parts listed in the following pages, refer to *Parts List and Diagram* on page 10.

- Using a wrench (sold separately), check that the Soldering Tip Nuts are not loose. Do not overtighten.
- The Soldering Gun comes with three Soldering Tips for different applications. Select desired Soldering Tip and install following soldering tip replacement directions outlined in the *Maintenance* and Servicing section on page 8.

Workpiece and Work Area Set Up

- Designate a work area that is clean and well-lit. The work area must not allow access by children or pets to prevent distraction and injury.
- Route the power cord along a safe route to reach the work area without creating a tripping hazard or exposing the power cord to possible damage. The power cord must reach the work area with enough extra length to allow free movement while working.
- Secure loose workpieces using a vise or clamps (not included) to prevent movement while working.
- 4. There must not be objects, such as utility lines, nearby that will present a hazard while working.

- If wires are to be soldered, thoroughly clean or scrape the wires so that only the clean metal is showing, then make the wire splice.
- If other objects are to be soldered, thoroughly clean or scrape the metal surfaces. It may be necessary to apply acid flux (not included) to the metal surfaces before soldering.

Notice: If soldering on printed circuit boards, too much heat can soften the plastic form and loosen the metal eyelet connections. Use minimal heat, or solder with a low wattage soldering pencil. Never use acid-core solder on wiring circuits.

<u>Note:</u> Users who are new to soldering may find it helpful to practice soldering on scrap wires and splices prior to actual use.

General Operating Instructions

- Set the Soldering Gun on a fireproof workbench away from all flammable materials and plug the Power Cord into an electrical outlet.
- 2. Press on the Trigger until the Soldering Tip heats up.
- Apply a sufficient amount of rosin-core solder to melt over the entire Soldering Tip. Wipe the tip with a rag until the tip is clean and shiny.
- Brush on solder flux, as needed, to the workpiece. Place the Soldering Tip to the joint, wiring splice, or metal to be soldered.
- Apply solder to the wire splice or metal to be soldered, not the Soldering Tip. When the splice or metal is hot enough, it will melt the solder causing it to flow within the splice or between the metal surfaces.
- When the solder has flowed over the entire wire splice or metal surface, remove the Soldering Tip and release the Trigger.
- 7. To prevent accidents, turn off the tool and unplug it after use. Clean, then store the tool indoors out of children's reach.

Maintenance and Servicing



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

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION: Make sure that the Trigger is in the off-position, unplug the tool from its electrical outlet, and allow it to cool completely before performing any procedure in this section.

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

Inspection, Maintenance, and Cleaning

- 1. **BEFORE EACH USE,** inspect the general condition of the tool. Check for:
 - loose hardware
 - · misalignment or binding of moving parts
 - · damaged cord/electrical wiring
 - · cracked or broken parts
 - any other condition that may affect its safe operation.
- AFTER USE, heat up the Soldering Tip again and apply a small amount of rosin-core solder to coat the tip. Wipe off with a rag. This will leave the tip clean and ready for use.
- 3. If the Soldering Tip cracks or becomes eroded, it needs to be replaced:
 - a. Using a wrench (sold separately), loosen the Soldering Tip Nuts by turning counterclockwise.
 - b. Pull the old Soldering Tip out of the Transformer Assembly mounting posts.
 Refer to the Assembly Diagram on Page 11.

- c. Slide the ends of the new Soldering Tip into the mounting posts of the Transformer Assembly.
- d. Carefully tighten the Nuts over the mounting posts by turning clockwise. Make sure that the Nuts fit squarely over threads or damage will occur to the mounting post threads. Do not overtighten.
- AWARNING! TO PREVENT SERIOUS INJURY: If the supply cord of this power tool is damaged, it must be replaced only by a qualified service technician.

Page 8

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, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

Parts List and Diagram

Parts List

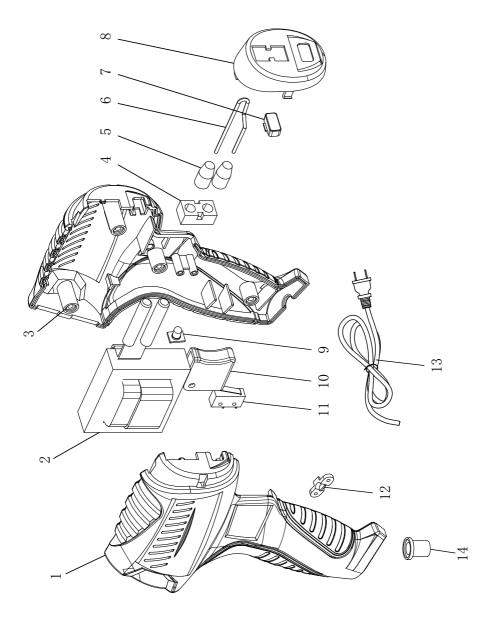
Part	Description	Qty
1	Left Housing	1
2	Transformer Assembly	1
3	Right Housing	1
4	Heat Insulator/Block	1
5	Soldering Tip Nut	2
6	Soldering Tip (2 Not Shown)	3
7	Lampshade	1
8	Cover	1
9	LED	1

Part	Description	Qty
10	Trigger	1
11	Switch	1
12	Clamping Plate	1
13	Power Cord	1
14	Protective Wire Sleeve	1
15	Solder Flux Paste (Not Shown)	1
16	Solder Wire Reel (Not Shown)	1
17	Storage Case (Not Shown)	1

Record Product's Serial Number Here:_

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

Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts. Specify UPC 193175473974 when ordering parts.



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.

