NICOPRESS®

MODEL 5606
BATTERY POWERED COMPRESSION TOOL

INSTRUCTION No. 5606

THE NATIONAL TELEPHONE SUPPLY COMPANY

www.nicopress.com

TABLE OF CONTENTS

I. SAFETY AND WARNING REMINDERS

NOTE: THE ***NICOPRESS***® BATTERY OPERATED COMPRESSION TOOL IS DESIGNED TO BE USED WITH ***NICOPRESS***® SLEEVES. SPLICING ANY OTHER ITEMS SHOULD NOT BE ATTEMPTED, AS IT MAY CAUSE DAMAGE TO EQUIPMENT AND/OR INJURY TO PERSONNEL.

1. Carefully read, understand and follow all instructions in this manual and on the tool before attempting to operate the equipment.
2. Always wear safety eye protection at all times.
3. Keep fingers out of pinch areas during operation.
4. Always point the tool away from other people.
5. If the tool is stored for an extended period at a temperature of less than 25º F (-5ºC), the tool should be allowed to return to room temperature to ensure smooth operation Use the tool only after it has been at room temperature for 1 hour.
6. Do not drop the tool. Dropping the tool may damage the hydraulic circuit and result in the tool not functioning correctly.
7. Keep the head and ram clean and free of debris. Solvents can be used to clean the head, but should not be used on the plastic body. Use soap and water to clean the body.

PRECAUTIONS FOR THE NBP-1 BATTERY CARTRIDGE:

1. Do not short circuit the contacts or expose the cartridge to water, oil or solvents.
2. Do not disassemble or attempt to repair the battery cartridge or dispose of in a fire.
3. Do not drop or otherwise abuse the battery cartridge.
4. Do not leave the cartridge in locations where it will be exposed to a temperature greater than 140ºF (60ºC) for an extended period
5. For long term storage beyond 2 months, it is recommended the battery cartridge be stored without being recharged and should only be recharged closer to the time of use.

PRECAUTIONS FOR THE NCH-1 CHARGER:

1. This charger is for charging battery cartridge NBP-1 only. Do not use the charger for any other devices.
2. Allow battery cartridges to cool before charging.
3. Charge batteries at an ambient temperature of 50º-95ºF (10º-35º C). Charging time is approximately 50 to 60 minutes for the NBP-1.
4. Never short circuit the output terminals.
5. Do not expose the charger to water, oil or solvents.
6. Do not disassemble, attempt to modify, drop or otherwise abuse charger.

II. SPECIFICATIONS AND FEATURES

1.Output Force — 6 ton

2.Weight — 8.2 lbs. with Battery

3. Size — 22”L x 4”H x 2.5”W

FEATURES

1. One Hand Operation.

2. Operates in confined space

3. Fully Enclosed Weather Resistant Housing.

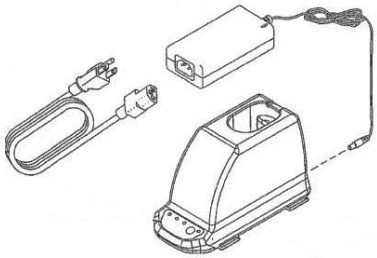
4. Accepts Nicopress 6 ton compression dies.

5. Molded Plastic Case with Die Compartment.

6. LED Work Lights

III. OPTIONAL ACCESSORIES

BATTERY CARTRIDGE
NBP-1



BATTERY CHARGER
NCH-1

Battery Cartridge (NBP-1), two included with tool.

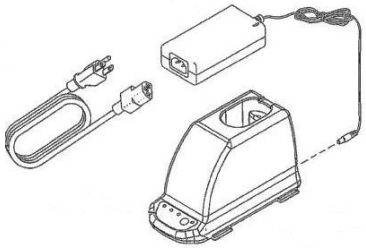
Battery type:	Lithium Ion
Voltage:	15.2V DC
Rated current:	3.0 Ah
Charge time:	50 to 60 min.

Battery Charger (NCH-1), one included with tool

Input voltage:	120 or 240 VAC single phase

IV. OPERATING INSTRUCTIONS

CHARGING THE BATTERY



1. Insert the plug end into a 120V power source. The POWER indicator lights up green with power.
2. To charge a drained battery, insert the battery into the charger. The READY indicator flashes green with 90% charge and solid green when fully charged. The charging will be completed in approximately 50 to 60 minutes.
3. The CHARGE/FAULT indicator shows amber when the battery is charging, or flashing amber if the battery is too hot to be charged and must cool to room temperature before charging.
4. The CHARGE/FAULT indicator shows a battery fault with a quick flashing amber.

ATTACHING THE BATTERY CARTRIDGE

1. While pressing the latch, pull out the battery cartridge. To replace the battery cartridge, push the new cartridge firmly into place.
2. After inserting a battery cartridge, check that it is securely in place by pulling gently. Do not press the latch when pulling the cartridge.

TRIGGER AND RELEASE BUTTON

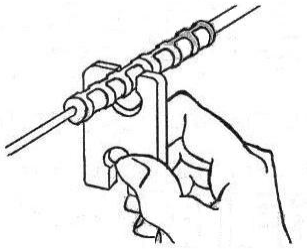
1 The ram advances when the trigger is pressed and stops when the trigger is released.
2 To retract the ram, push the release button. The ram continues to retract while the release button is pressed.

V. PROPER CRIMPING

1. Select the appropriate compression die set for the connector and cable being used. All Nicopress Series 6 Dies can be used with this tool.
2. Slide each die into place. Be sure both die halves are secure before operating the tool.
3. Place the connector between the dies press the trigger and advance the ram so that the connector is held between the dies and insert cable into the sleeve.
4. Press the trigger until the compression is completed. A clicking sound will be heard while operating and will stop once the crimp is completed. If the dies fail to close, it will be due to:
   - the tool being used for some application for which it was not designed.
   - the pressure not building up because of a depleted battery.
   - the dies being the incorrect size.
5. Press the release button to retract the ram. The ram continues to retract while the release button is pressed and stops when it reaches the lower end. Check the compression with the gauge.

USE OF CRIMP GAUGE

When using the gauge, it should be held so that it contacts the compressed portion of the sleeve at right angles to the fins (flash). The compressed portion of the splice should enter the gauge easily.

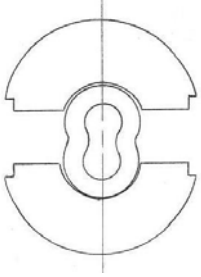


WIRE ROPE SPLICING

Because of the many variations in wire and fiber rope design and construction, it is recommended that all wire rope assemblies be pull tested prior to use.

It has been determined through pull testing that an eye splice using ***NICOPRESS®*** copper, copper plated and stainless steel oval sleeves will hold military specification aircraft cable to its breaking strength, when the cable is made to military specifications MIL-DTW-83420M, dated 02/17/2009 for cable constructions 3x7, 7x7, 7x19 and Federal Specification RR-W-410F dated 12-06-2007 for cable construction 6x19 IWRC. These test results were achieved using *NICOPRESS*® sleeves crimped with *NICOPRESS*® tools.

Splices in wire rope are made by compressing two wires together inside a sleeve. To compress the sleeve properly, position the sleeve between the crimping dies with the long axis of the sleeve aligned with the crimping action of the dies.



LAP SPLICES

When the ends of two pieces of wire rope or both ends of the same rope are spliced together, this splice is called a lap splice. Usually two sleeves are needed to develop a splice equal to the breaking of the wire.

To make a proper lap splice, pull the ends of the rope through both sleeves. Be sure to leave a space between the sleeves to allow for extrusion of the sleeves during crimping and approximately 1/16" to 1/8" space between sleeves after crimping. The sleeve length, after crimping, can be found in *NICOPRESS*® Catalog No. 4 for Oval Sleeves. The ends of the wire should extend approximately 1/16" beyond the edge of the crimped sleeves.

EYE SPLICES

Eye splices are formed by pulling one end of the wire or fiber rope through the oval sleeve and looping it back to form an eye (Figure 1). Line up the sleeve between the crimping dies with the long axis perpendicular to the crimping action of the dies. The splice is made by the two wires being compressed together inside the sleeve.

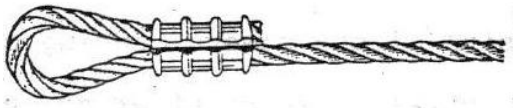


Figure 1

Because of the many different types of wire rope, there can be no formula governing the exact size of loop to use. It is suggested that the length of the loop be approximately twice the width (Figure 2).

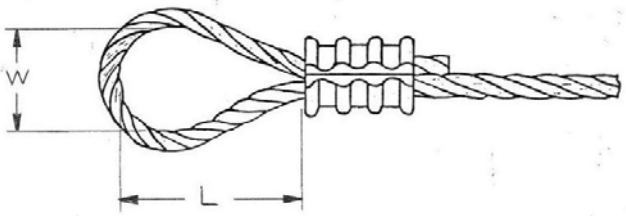


Figure 2

All wire rope assemblies should be pull tested prior to use to assure proper tensile strength.

COMPRESSION DIE CHART FOR WIRE ROPE SPLICING

Oval Sleeves

Cable Size	Oval Sleeve Stock #	Compression Die/# of Presses Required	Cable Size	Oval Sleeve Stock #	Compression Die/# of Presses Required
3/64	18-11-B4 28-11-B4 428-1.5-VB4 188-1.5-VB4	6-OVAL-B4 (1) 6-OVAL-B4 (1) 6-OVAL-B4 (1) 6-188-VB4 (1)	3/16	18-6-X 28-6-X 428-6-VX 188-6-VX	6-OVAL-X (2) 6-OVAL-X (2) 6-OVAL-X (2) 6-188-VX (2)
1/16	18-1-C 28-1-C 428-2-VC 188-2-VC	6-OVAL-C (1) 6-OVAL-C (1) 6-OVAL-C (1) 6-188-VC (1)	7/32	18-8-F2 28-8-F2 428-7-VF2	6-OVAL-F2 (2) 6-OVAL-F2 (2) 6-OVAL-VF2 (2)
3/32	18-2-G 28-2-G 428-3-VG 188-3-VG	6-OVAL-G (1) 6-OVAL-G (1) 6-OVAL-G (1) 6-188-VG (2 ov)	1/ 4	18-10-F6 28-10-F6 428-8-VF6 188-8-VF6	6-OVAL-F6 (3) 6-OVAL-F6 (3) 6-OVAL-F6 (4) 6-188-VF6 (4)
1/ 8	18-3-M 28-3-M 428-4-VM 188-4-VM	6-OVAL-M (2) 6-OVAL-M (2) 6-OVAL-M (2) 6-188-VM (2)	5/16	18-13-G9 28-13-G9 428-10-VG9 188-10-VG92	6-OVAL-G9 (4) 6-OVAL-G9 (4) 6-OVAL-G9 (4) 6-188-VG9 (4)
5/32	18-4-P 28-4-P 428-5-VP 188-5-VP	6-OVAL-P (2) 6-OVAL-P (2) 6-OVAL-P (2) 6-188-VP (2)	3/8	18-23-H5 28-23-H5 428-12-VH5 188-12-VH5	6-OVAL-H5 (5) 6-OVAL-H5 (5) 6-OVAL-H5 (5) 6-188-VH5 (5)

Stop Sleeves

Cable Size	Stop Sleeve Stock #	Compression Die/# of Presses Required
3/64	871-12-B4	6-OVAL-B4 (1)
1/16	871-1-C 878-2-VC	6-OVAL-C (1) 6-OVAL-C (1)
3/32	871-17-J 878-3-J	6-J (1) 6-J (1)
1/ 8	871-18-J 878-4-J	6-J (1) 6-J (1)
5/32	871-19-M 878-5-M	6-OVAL-M (1) 6- OVAL-M (1)
3/16	871-20-M 878-6-M	6- OVAL-M (1) 6- OVAL-M (1)
7/32	871-22-M	6- OVAL-M (2)
1/ 4	871-23-F6 878-8-VF6	6-STOP-F6 (2) 6- STOP -F6 (2)
5/16	871-26-F6 878-10-VF6	6- STOP -F6 (2) 6- STOP -F6 (2)

COMPRESSION DIE CHART FOR SYNTHETIC & FIBER ROPE SPLICING

Oval Sleeves

Cable Size	Oval Sleeve Stock #	Compression Die/# of Presses Required	Cable Size	Oval Sleeve Stock #	Compression Die/# of Presses Required
1/16	1700-C	6-1700-C (1)	1/ 4	1700-X	6-1700-X (2)
1/ 8	1700-M	6-1700-M (2)	5/16	1700-G3	6-1700-G3 (4)
3/16	1582-P	6-1582-P (2)			

TROUBLESHOOTING GUIDE

PROBLEM	CAUSE	SOLUTION
MOTOR RUNS, BUT THE TOOL JAWS WILL NOT ADVANCE	Insufficient Hydraulic Oil	Consult Factory for Repair Service
	Air Block in Hydraulic System	Invert tool to allow air to rise towards the top of the oil bladder
	Defective Hydraulic Circuit	Consult Factory for Repair Service
MOTOR RUNS, TOOL JAWS ADVANCE BUT WILL NOT BUILD PRESSURE	Insufficient Hydraulic Oil	Consult Factory for Repair Service
	Defective Suction Valve or Bypass Cartridge	Consult Factory for Repair Service
MOTOR WILL NOT RUN AT ALL	Defective Battery	Charge or Replace Battery
	Bad Contact or Loose Battery Connections	Check all Connections and Wires
	Misaligned Switch	Check to Make Sure that Switch is Properly Aligned with Trigger
		Consult Factory for Repair Service
TOOL JAWS WILL NOT RELEASE	Tool Did Not Complete a Full Cycle and Bypass	Press Trigger and allow Tool to Bypass. Then Release Tool Jaws.
	Connector is Jammed in Tool Jaws	Press and Hold Release Trigger While Prying Tool Jaws Apart.
	Release Trigger is Bent or Misaligned	Consult Factory for Repair Service

MODEL 5606 WARRANTY

The 5606 Battery Tool has a 1 year warranty and the NBP-1 battery has a 5 year warranty. NICOPRESS reserves the right to determine all warranty claims. Failure due to misuse, abuse or repairs attempted by anyone other than NICOPRESS, render this warranty null and void. A repaired or reconditioned battery operated hydraulic tool carries a one year warranty.

REPAIR AND WARRANTY CLAIMS

Call a NICOPRESS Authorized Distributor stating the tool's purchase date and problem description. You will be given a Return Goods Authorization No. to assure that your merchandise will be properly handled upon receipt. Non-warranty repairs are handled using the same procedure. Repairs exceeding 50% of the cost of a new tool will be advised before repairs are made.

PLEASE RETAIN FOR YOUR RECORDS

Purchaser's Name _____

Address _____

City, State, Zip _____

Tool Model Number _____

Serial Number _____

Date Purchased From _____

FACTORY MAINTENANCE SERVICE

A factory maintenance reconditioning service is available beyond the warranty period to accommodate normal tool wear. Contact your authorized distributor for additional information and details.

THE NATIONAL TELEPHONE SUPPLY COMPANY

5100 Superior Avenue, Cleveland, Ohio 44103

Phone: 216-361-0221 Fax: 216-361-3111 03.11

www.nicopress.com

MODEL 5606 WARRANTY

HOW TO GET SERVICE UNDER THE TERMS OF THE LIMITED WARRANTY

Return your product directly to a NICOPRESS authorized distributor.

Call a NICOPRESS Authorized Distributor stating the tool's purchase date and problem. You will be given a Return Goods Authorization Number to assure that your merchandise will be properly handled upon its receipt.

CAUTION: Make sure the product is packaged adequately so as to prevent damage or loss during transit. The shipment must be prepaid and we recommend that it be insured. A cover letter indicating the reason for the return should be included in order to facilitate repairs.

SEND THIS PORTION WITH ANY TOOL WHEN REQUESTING REPAIRS, WARRANTY OR RECONDITIONING WORK.

PLEASE CALL OR FAX A NICOPRESS DISTRIBUTOR

Nicopress RGA No. _____

Distributor _____

Address_____

City_____ State _____ Zip _____

Tool Model _____

Serial No. _____

Warranty Claim _____ Repair Only ____ Estimate Required: Yes ____ No ____

Problem Description: _____

_____

Customer Name:_____

Phone (_____) _____

Address_____

City_____ State _____ Zip _____