



Operating Manual

Please Read Before Operating Unit



Model 824 Portable Coaxial Cable Stripper

PLEASE CALL FOR SERVICE OR SPARE PARTS

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SPECIFICATIONS

Cable diameters:

Maximum.....0.430" (10.9mm)
larger diameter available as custom
Minimum.....0.030" (0.76mm)
Maximum strip length 0.965" (24.5mm) standard,
longer lengths available as custom
Minimum strip length0.050" (1.27mm)
dependent on material, diameter and construction
Decibel Rating 82dB(A)
Power Rechargeable NiCad battery pack
with trickle-charger, 14 hour charge cycle,
AC to DC power supply, 10V DC output

Size of stripper

with standard battery pack or AC attached:

Length..... 9-1/2" (241mm)
Diameter at body2" (51mm)
Diameter at head.....3" (76mm)
Size of AC to DC Power Supply 10"x4"x4"
(254mmx102mmx102mm)

Weight of stripper:

With standard battery pack..... 2 lbs. (910g)
With AC Power 1 lb. 6oz. (609g)
Weight of AC to DC power supply 10 lbs. (4.5Kg)

ORDERING INFORMATION

RC2000 (824)..... Portable stripper kit,
includes stripper with standard battery pack,
110V charger, DC power charger cord,
and carrying case

RP5710..... Additional Battery Charger, 110V
RI5000 Replacement Standard Battery Pack
RI2040 Standard Battery Pack with Charger, 110V
RI6711 Replacement Blade
NR0014 Replacement Blade for
Semi-Rigid Cutter Head
RI2091Replacement Hand Driver, Finished
RI0056 Optional AC to DC power supply, 110V
RP2036..... Battery charger, Europe (except UK)

**Cutter heads must be ordered separately
(one required per machine)**

RI2047 Cutter head with a UV or V size hole
(0.351-0.445 dia.)
RI2056Cutter head with the strip length of .070
or less between blades
RI3040Single level semi rigid cutter head
RI3041 Two level semi rigid cutter head
RI3042 Single level coax cutter head
RI3043 Two level coax cutter head
RI3044 ... Two level coax cutter head (braid exposed)
RI3045 Three level coax cutter head

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SET-UP:

Depending on the exact unit ordered, the portable coaxial cable stripper will come complete with a driver, Ni-Cad battery pack (or A/C to D/C power supply), A/C charger with plug and D/C adaptor charger. The tool may or may not be packaged in a plastic carrying case, depending on model ordered.

SET-UP FOR BATTERY OPERATION:

NOTE: Battery operation is designed for light to medium production applications on small cables or semi-rigid cables under .141"(3.58mm) OD. For larger diameter cables, or heavy production use, the A/C to D/C power supply, or the Model 1246 Bench unit should be used.

The Ni-Cad battery pack is fully charged at the factory and should not need charging before use. If it is necessary to remove the battery pack from the driver, unscrew it, following the label instructions on the tool. The battery pack contains a ring loop to facilitate attachment to a balancer, tool belt, etc. For protection purposes, the ring loop is covered with tape during shipment, remove this tape before use. To install the cutter head into the tool, remove the top cap from the driver.

NOTE: This cap has reverse threads to keep it from coming loose during operation, be sure to turn the cap clockwise to remove it. With the cap removed, drop the cutter head into the driver, seating the drive coupling into the hex shaped driver. Replace the top cap onto the driver. The unit is now ready for use.

SET-UP FOR AC OPERATION:

NOTE: Use of the A/C to D/C power supply is recommended for larger diameter cables or heavy production applications. The A/C to D/C power supply imparts more power to the driver than the regular battery pack.

If the optional A/C to D/C power supply has been purchased, first attach the driver of the unit to the power supply pack by screwing them together (do not overtighten). Plug the female end of the IEC cord into the IEC connector on the power supply, and plug the male plug into the electrical supply. Check that the unit is plugged into the appropriate electrical supply. To install the cutter head into the driver, remove the top cap from the driver.

NOTE: This cap has reverse threads to keep it from coming loose during operation, be sure to turn the cap clockwise to remove it. With cap removed, drop the cutter head into the driver, seating the drive coupling into the hex shaped driver. Replace the top cap onto the driver. The unit is now ready for use.

OPERATION:

Safety glasses or other suitable eye protection should be worn when operating this unit. The cutter head works with centrifugal force to cause the blade cartridge to cut into the cable at predetermined strip lengths and depths to strip the cable. The spacing of the blades for strip lengths is determined by the application and is fixed. The depth of the blades, however, can be adjusted by use of the blade adjusting screws found on the cutter head blade cartridge. To operate the unit, insert a piece of the cable to be stripped into the cutter head until it hits the strip stop. **NOTE:** Hold cable firmly and present it to the cutter head straight for best results. Turn the unit on by pressing the switch on the driver, and hold the switch in the ON position for four to five seconds to allow the cutter head to fully complete the strips. Release the switch. When the cutter head has come to a complete stop, remove the cable from the tool and remove the slugs using fingers or a suitable tool.

Remove the slugs starting from the end and working inwards.

NOTE: Occasionally slugs may be removed during the stripping operation and will be caught in the blade cartridge. To remove them, turn the driver on end and lightly tap the top cap with your hand to cause the slugs to fall out of the cutter head. Repeated use of the tool to remove slugs during stripping may cause damage to the driver due to small pieces of braid falling into the gears and jamming them. Such damage is not covered by warranty.

Examine the strip. If any of the blades have cut in too far or not far enough, remove the cutter head from the driver and use a small screwdriver to adjust the blade depth via the blade adjusting screws located on the blade cartridge. Turn screws about 1/4 turn clockwise to bring the blade deeper or 1/4 turn counterclockwise to retract the blade.

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The center conductor length can also be adjusted if necessary. To do this, turn the screw located in the plastic V drive coupling of the cutter head. The screw is accessed through a hole in the plastic coupling.

NOTE: Do not back the screw out past the end of the cutter head coupling. Doing so will cause the head not to seat properly in the driver and may result in damage to the driver gears. After making any required blade depth and center conductor length adjustments, replace the cutter head in the driver. Using a clean piece of cable; test again. Repeat adjustment procedure until desired results are achieved.

SPECIAL INSTRUCTIONS:

LARGE DIAMETER OR STIFF CABLES: The cutter head works best when the cable is presented straight. Any curvature, as is often found in large and stiff cables, will cause cuts that are too deep on one side and not deep enough on the other. Smaller cable with curvature will usually be straightened by the cutter head blades as they strip.

LARGE DIAMETER, SEMI-RIGID OR SOFT FLEXIBLE CABLES: These types of cables can cause drag on the blades due to their construction. Stripping results may be unsatisfactory or inconsistent due to the drag. This problem can be helped by applying a small amount of lubricant to the cable end before inserting it into the cutter head. White Teflon grease or silicone lubricant are two good choices to reduce drag and improve stripping results on these types of cables. Use of lubricant is especially required when stripping semi-rigid cable to reduce the friction of the metal cable jacket against the cutter head tube and blades.

MAINTENANCE:

! CAUTION: BE SURE TO UNPLUG THE UNIT BEFORE PERFORMING ANY MAINTENANCE. BE SURE TO EMPLOY APPROPRIATE ANTI-STATIC PROCEDURES/DEVICES WHEN DISASSEMBLING AND ASSEMBLING UNIT.

BATTERY PACK CHARGING: The 824 Battery Pack is a 6.0V Ni-Cad Rechargeable battery. It may be recharged by use of the 110V or 230V A/C Trickle Charger. The battery will last for 500 to 1000 charge cycles and produce approximately 150 to 200 strips per charge.

TO CHARGE WITH TRICKLE CHARGER: The A/C Trickle Charger requires a 14-hour charge cycle from dead discharge. The Battery Pack may be charged either while attached to the Driver or separately. If attached to the Driver, the Driver may be used while also being charged. To remove the Battery Pack for charging, unscrew it from the Driver as per the affixed removal label. When the battery is removed from the Driver, use the plastic cap provided to cover the electrical contacts, this will prevent accidental shorting of the battery pack.

When using the wall outlet charger, plug the end of the charger into the socket located at the bottom of the Battery Pack and plug the charger into the wall outlet. A green LED located next to the charger socket will light up on the Battery Pack to indicate the Battery is charging.

Shorter charge cycles than the full 14 hour charge are acceptable, however, maximum performance from the Battery Pack is best obtained if the Battery is occasionally fully discharged prior to charging. If the Battery is partially discharged and then charged on a regular basis, its strip capacity per charge can be reduced due to the crystalline memory of the Battery. If this occurs, the Battery may be "re-freshed" by completely discharging the Cells before re-charging.

NOTE: The Battery may not perform to stated specifications under low temperature conditions.

DRIVER: Periodically check inside Cutter Head Housing for debris build up and clean as necessary. Do not use solvents to clean plastic parts, this can cause both cosmetic and structural problems. Use of glass or furniture type cleaners is recommended.

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A/C TO D/C POWER SUPPLY: No periodic maintenance is required on the Power supply. Should the A/C Power Supply fail to work, check first the fuse located in the IEC connector (1 Amp/ 115V or 2 Amp /230V). Ensure that the proper voltage is supplied to the Power Supply as indicated on the label and that the IEC Plug is fully inserted into the IEC Jack. Keep vent louvers free from obstruction to ensure adequate air flow for cooling.

CUTTER HEAD: No special maintenance is required to the Cutter Head. This Cutter Head is all metal and can be cleaned with any type cleaning material except for the bottom "V" Coupling which is plastic. Special care should be taken to ensure that this plastic part does not come into contact with any solvent. The part number label may be damaged by cleaning.

Ensure that no slugs or pieces of braid are stuck in the head, which can cause stripping problems. Replace blades as necessary. See below for blade replacement instructions.

BLADE REPLACEMENT: To replace one or more blades in the cutter head, first remove the head from the driver. To access the blade cartridge use a Phillips head screwdriver to remove the three screws holding the top plate onto the cutter head. Remove the top plate and lift the blade cartridge up and out of the bottom plate. Back out the adjustment screws, remove spring material and lift out cutting blades. Replace with new blades. Re-install spring material under blades, install cartridge, replace top plate with screws.

NOTE: Install two machine screws in the silver standoff and the plastic standoff. Install coarse thread screw in the lead standoff.

SAFETY INSTRUCTIONS

GROUNDING INSTRUCTIONS In the event of a malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounded plug.

The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with

all local codes and ordinances. Do not modify the plug provided. If it will not fit the outlet, have the proper outlet installed by a qualified electrician. Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with or without yellow strips is the equipment-grounding conductor. If repair or replacement of the electric cord plug is necessary, do not connect the equipment-grounding conductor to a live terminal.

Check with a qualified electrician or service personnel if the grounding instructions are not completely understood or if in doubt as to whether the tool is properly grounded.

Use only 3-wire extension cords, that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug. Repair or replace damaged or worn cords.

GENERAL INSTRUCTIONS

ATTACH ALL GUARDS Never operate any unit unless all applicable blade guards are securely attached.

BE SURE UNIT IS SECURED TO BENCH Use key slots or mounting holes as applicable to the unit in use, and secure firmly to the work bench.

REMOVE ADJUSTING KEYS AND WRENCHES Form a habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on.

KEEP WORK AREA CLEAN Cluttered areas and benches invite accidents.

DON'T USE IN DANGEROUS ENVIRONMENT Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well lit.

DON'T FORCE TOOL It will do the job better and safer at the rate for which it was designed.

USE THE RIGHT TOOL Don't force the tool or attachment to do a job for which it was not designed.

DON'T OVERREACH Keep proper footing and balance at all times.

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DISCONNECT TOOLS Before servicing; when changing accessories, such as blades, wheels, cutter, and the like.

REDUCE THE RISK OF UNINTENTIONAL STARTING Be sure switch is in off position before plugging unit in.

USE RECOMMENDED ACCESSORIES Consult the operating manual for recommended accessories. The use of improper accessories may cause risk of injury.

CHECK DAMAGED PARTS Before further use of the tool, 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 conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.

NEVER LEAVE TOOL UNATTENDED Turn power off. Don't leave tool until it comes to a complete stop.

WEAR PROPER APPAREL Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry that might get caught in moving parts. Nonslip footwear is recommended. Wear protective hair covering to contain long hair.

ALWAYS USE SAFETY GLASSES: Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses. Also use face or dust mask if stripping operation is dusty.

TROUBLESHOOTING:

PROBLEM: Strip not deep enough.

SOLUTIONS:

- 1) Adjust blade depth screws on cutter head clockwise.
- 2) Increase driver "on" time.

PROBLEM: Strips too deep.

SOLUTIONS:

- 1) Adjust blade depth screw on cutter head counter clockwise.
- 2) Decrease driver "on" time.

PROBLEM: Strips inconsistent.

SOLUTIONS:

- 1) Check that cable is straight.
- 2) Use lubricant on large cables or semi-rigid cables.
- 3) Check there are no slugs or debris caught in cutter head.

PROBLEM: Cutter head jammed.

SOLUTION: Clean out slugs from cutter head.

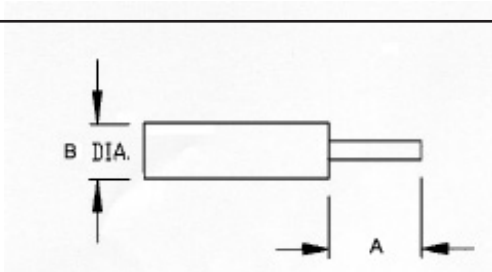
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CUTTER HEAD ASSIGNMENT FORM

To Process your stripping head order accurately please provide the following:

- The actual strip dimensions, the outside diameter (O.D.) of your cable and any tolerance requirements
- Use the appropriate diagram based on the number of strip levels required
- Specify inch or metric
- Please fill out your company's name, signature and date

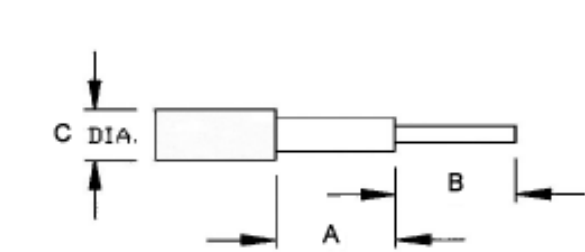


*A = _____

*B = _____ Dia.

**ONE LEVEL
COAX OR
SEMI-RIGID**

*Strip Dimensions



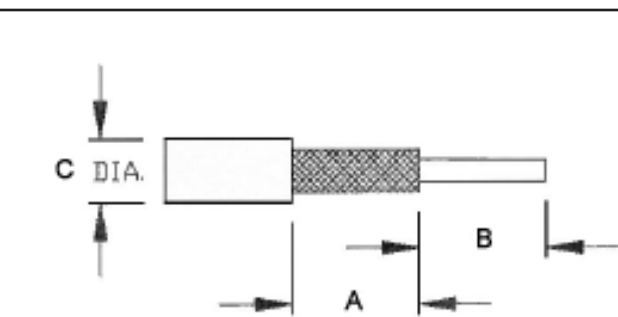
*A = _____

*B = _____

C = _____ Dia.

**TWO LEVEL
(DIELECTRIC EXPOSED)
COAX OR SEMI-RIGID**

*Strip Dimensions



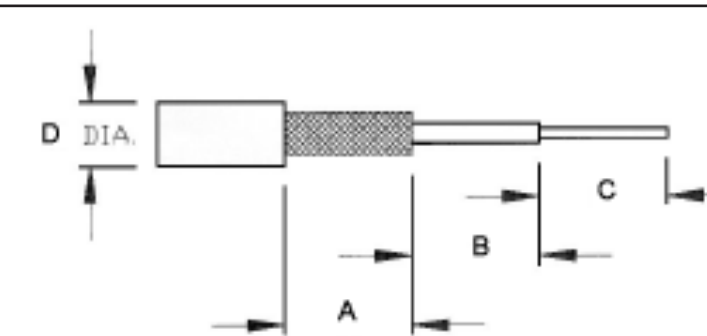
*A = _____

*B = _____

C = _____ Dia.

**TWO LEVEL
(BRAID EXPOSED)
COAX**

*Strip Dimensions



*A = _____

*B = _____

*C = _____

D = _____ Dia.

**THREE LEVEL
COAX OR JACKETED
SEMI-RIGID**

*Strip Dimensions

Bench: Hand:

Tolerance Required = +/- . _____ /Inch or Metric (Circle One)

Company Name: _____

Customer Signature: _____ Date: _____

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