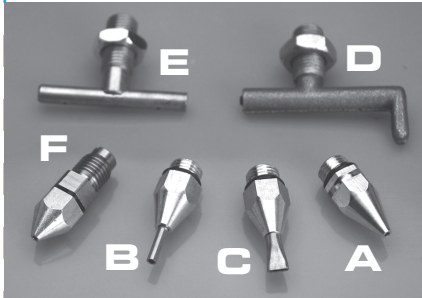


PRO•90 PARTS LIST

Ref.	Description	Ad-Tech Part No.
1.	Stand	1666
2.	Nozzle Assembly, standard with O-ring	3619
3.	O-Ring only	6021

PRO•90 ACCESSORIES

Ref.	Description	Ad-Tech Part No.
A	Nozzle Assembly, Standard 0.70" Orifice	3619
B	Nozzle Assembly, Needle Extension	3607
C	Nozzle Assembly, Spreader Extension	3608
D	Nozzle Assembly, "L" type	3609
E	Nozzle Assembly, "T" type	3610
F	Nozzle Assembly, Adjustable Stainless Steel	
	With .060" Orifice Aluminum cover	3622
G	Non-Stick Work Surface Pad, 8" x 8"	0717
H	Non Stick Work Surface Pad, 18" x 18"	0718



A. 3619 Standard Nozzle – aluminum nozzle body with .070" orifice for general applications.
B. 3607 Needle Extension Nozzle + ¼" brass extension/aluminum body, orifice .090", for hard to reach applications like grooves, cracks and holes.
C. 3608 Spreader Extension Nozzle – ¾" aluminum extension with 1/2" wide spreader/aluminum body applies ½" wide adhesive bead.
D. 3609 "L" Nozzle - designed to provide a guide for FOL (full overlap).

E. 3610 "T" Nozzle – designed to provide a guide for RSC (regular slotted) cartons.
F. 3622 Stainless Steel Nozzle Body/Nozzle Cover – adjustable check valve stainless steel nozzle body with .090" orifice for most applications and aluminum nozzle cover with .060" orifice for small applications.
G. 0717 or 0718 Work Surface Glue Pad – Non-stick silicone material protects any surface and allows glue drips to be picked off pad to keep work area neat and clean.

ADHESIVE SELECTOR GUIDE

ADHESIVE TECHNOLOGIES FORMULA												
Formula	230	235	236	271	280	610	630	700	962	660 LT	2030 LT	
ABS		X	X		X				X			
Acrylic					X				X			X
Aluminum		X	X	X	X				X			X
Ceramic	X	X	X	X	X				X			
Copper				X					X			
Fiberglass				X	X			X	X			X
Leather	X	X	X		X	X	X		X	X		X
Hardwoods	X	X	X		X	X	X	X	X	X		X
Rubber				X								
Nylon				X		X	X	X	X	X		X
Paper	X	X	X	X	X	X	X		X	X		X
Particle Board	X				X	X	X	X	X	X		X
PC Board				X					X			X
Softwoods	X	X	X		X	X	X	X	X	X		X
Polycarbonate		X	X	X	X				X			X
Polyethelene		X	X	X								
Polypropylene				X					X			X
Polystyrene				X	X				X			X
Potting & Encapsulating						X		X				X
PVC		X	X	X	X				X			X
Sandmolds						X		X	X			
Preheated Steel	X			X	X			X	X			X
Foams						X	X			X		X
X- Recommended First Choice(s)						X - Recommended Alternatives						



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P/N 7845-05



Pro-90
Industrial Glue Gun



OWNER'S MANUAL

INTRODUCTION – the ADHESIVE-TECH PRO-90 Industrial Glue Gun is manufactured in Taiwan with quality materials and workmanship. If operated and maintained in accordance with this manual, the PRO-90 should deliver years of reliable service. **PLEASE READ THIS MANUAL THOROUGHLY BEFORE USING YOUR GLUE GUN.**

The **PRO-90** is a conventional, PTC powered, high temperature, glue gun that heats to the 400°F (205°C) range. It uses ½" diameter round high temperature adhesive sticks and delivers up to 2.2 pounds per hour of adhesive when used continuously. This gun is used for small applications where sensitivity to high temperatures is not a problem.

SAFETY INSTRUCTIONS

WARNING: When using electric tools, the following basic safety precautions should always be followed to reduce the risk of fire, electric shock, burns, and other personal injuries.

WARNING: The power cord on this product contains lead, a chemical known to the State of California to cause birth defects or other reproductive harm. **Wash hands after handling.**

PLEASE READ ALL INSTRUCTIONS CAREFULLY AND SAVE THESE RULES FOR FUTURE USE.

1. ALWAYS WEAR SAFETY GLASSES – All power tools can cause severe eye damage. Use proper safety glasses or a wide vision safety mask if you wear corrective lenses.
2. DO NOT TOUCH THE HEATED NOZZLE OF THE GLUE GUN OR THE HOT ADHESIVE. The temperature of glue guns can reach over 400°F.
3. DO NOT LEAVE THE GLUE GUN PLUGGED IN OR IN A HOT CONDITION UNATTENDED.
4. KEEP WORK AREA CLEAN, ORGANIZED AND WELL LIGHTED. Cluttered work areas invite injuries.
5. DO NOT USE GLUE GUN IN DAMP OR WET LOCATIONS. This tool is recommended for dry, indoor use only.
6. KEEP CHILDREN AND VISITORS OUT OF REACH OF TOOL AND CORD.
7. DON'T ABUSE THE CORD. Do not yank from outlet or carry tool by the cord. Don't expose to heat, oil, sharp objects or other abuse.
8. UNPLUG TOOL BEFORE CHANGING accessory parts.
9. STAY ALERT. Use common sense and do not use tool when tired.
10. USE PROPER MATERIALS. Never attempt to use any material other than the recommended adhesive in any glue gun. Serious burns and permanent damage to the glue gun could result.
11. UNDERSTAND GLUE GUN AND ADHESIVE LIMITATIONS. Read specifications on the system carefully. Do not use hot melt adhesives in place of structural fasteners – especially in critical applications.
12. UNDERSTAND ADHESIVE PROPERTIES. Most hot melt adhesives begin to soften at about 140°F (less for LT formulations). Do not use hot melt adhesives on objects that will be subjected to temperatures that approach this point.
13. DO NOT REMOVE UNUSED PORTION OF GLUE STICK FROM A GLUE GUN.
14. DO NOT ATTEMPT TO FORCE COOL THE GLUE GUN BY IMMERSING IN WATER OR ANY OTHER LIQUID. ALLOW GUN TO AIR COOL ONLY.
15. INDUSTRIAL GLUE GUNS ARE NOT INTENDED TO BE USED BY CHILDREN UNDER 18 YEARS OF AGE UNDER ANY CIRCUMSTANCES.
16. UNPLUG AFTER USE. Do not allow glue gun to be plugged in unused for more than 2 hours or degradation of the adhesive can occur. Simply unplug and reheat when needed. Unused adhesive can be stored indefinitely in a cold gun and be re-melted and used later.

USING YOUR PRO•90 GLUE GUN

1. Plug the glue gun into any convenient 120 VAC receptacle or appropriate extension cord and allow 5 minutes for gun to heat.
2. Insert the first glue stick into the rear opening of the gun and squeeze the trigger repeatedly until molten adhesive begins to flow from the nozzle tip. On a new gun it will take one full 10" glue stick or two full 4" glue sticks before glue begins to flow from the nozzle and it will take a little extra time for the first stick to melt as the melting chamber was previously empty. The glue gun may now be used continuously by simply reloading and squeezing. The sensitive triggering of the PRO-90 allows as much variation of glue volume, force, size of bead and precision as necessary.
3. Always place the glue gun down in its upright orientation by using the flip down stand. This ensures safety and convenience. Use the Non-Stick Work Surface Pad (see Accessories) to prevent glue drips from contaminating your work area or your project.
4. Storage – When your job is done, simply unplug the PRO-90 and allow it to cool to room temperature. **DO NOT ATTEMPT TO REMOVE THE UNUSED GLUE STICK FROM THE PRO-90.** If you desire to change formulations, simply empty the glue chamber by normal trigger squeezing and use the new glue stick formulation normally.

OTHER TIPS

MELT RATE CAPACITY – Important – Under continuous use, the glue gun will be approaching its maximum melt rate. Under this condition, some temperature variation and inconsistency in bonding may result. If this happens, it is advisable to consider the purchase of a higher output glue gun or consider using two or more guns alternatively to allow ample recovery time.

SET TIMES – While each adhesive is slightly different, most ADHESIVE-TECH hot melts set within a few seconds, so planning is essential for adequate working time and best results. Please refer to the specifications for your adhesive or determine by trial how much working time you have for your particular adhesive.

Most adhesives will achieve nearly 90% of their ultimate strength within one minute so clamping is generally not necessary unless working with a combination of adhesives that require clamping. Hot melt adhesives are often used as a temporary clamp while permanent fasteners like nails, screws, or bolts are used.

BONDING LARGE AREAS – **EXTENDING WORKING TIME** – Large areas may be difficult to bond because frequently the glue will cool on the surfaces before the bond is made. Pre-heating the surfaces with a hot air gun, exposure to sunlight or other methods can help prevent this premature cooling and allow you to have considerably longer working time. Of course, good judgment must be used on the method and temperature of the pre-heating to ensure no damage to the materials will result.

Working time can also be extended by applying larger than normal drops or beads of adhesive that will hold their heat longer. Obviously experimentation will determine the best method to adjust the working time for your particular project.

PREVENTIVE MAINTENANCE AND ADJUSTMENTS

1. CONSIDER USING ADHESIVE-TECH GLUE STICKS. These are specially formulated and manufactured for the exact fit and for the specific operating conditions and temperatures of the PRO-90 Glue Gun.
2. KEEP FOREIGN MATTER OUT OF THE GLUE FEEDING AND MELTING CHAMBERS.
3. DO NOT PULL GLUE STICK FROM THE GUN. Damage to the feed mechanism area may result from melted glue being where it should not be. If it is necessary to change formulas, feed through the stick that is in gun and insert the new type stick behind it.
4. USE ONLY ROUND STICKS IN THIS GUN.
5. NOZZLES – KEEP NOZZLE CLEAN AND POINTED DOWN when the gun is heated and not being held. If nozzle does not stay clean, replace it. If nozzle drips excessively, replace it. **TO REPLACE:** While gun is at least warm to ensure that glue is soft, loosen the nozzle using a ½" open end wrench, box wrench or pliers. Be sure an O ring is appropriately installed on the nozzle and screw in the nozzle finger tight only. It is not necessary to over-tighten the nozzle with a wrench.
6. MELT BACK or BACK-UP – If melted glue has escaped from the melt chamber entrance and is interfering with the feeding mechanism, allow the gun to cool, unplug, and gently remove the obstructing glue with a small screwdriver or other small tool. Never insert a knife or sharp tool into the gun at any time for any reason. Never work on the gun when it is plugged in.

LIMITED WARRANTY

The PRO-90 Glue Gun is warranted by Adhesive Technologies, Inc. for 12 months from the date of purchase against defects in material and workmanship when used in accordance with the instructions provided in this Owner's Manual. During the warranty period repairs or replacements will be made free of charge at the option of the warrantor. This warranty does not cover damages caused by accident, misuse, or use of adhesive sticks that do not conform to Adhesive Technologies' quality control standards. If you feel you have a defective tool, please call 1-800-458-3486 to obtain an RMA number (Return Material Authorization). A tool so claimed to be defective should be returned with the RMA number clearly marked on the outside of the box, at the owner's expense and risk to:

Adhesive Technologies, Inc.
3 Merrill Industrial Drive
Hampton, NH 03842-1995

The foregoing warranty is exclusive and Adhesive Technologies, Inc. disclaims any other warranty expressed or implied. No warranty of merchantability or fitness purpose shall apply. Adhesive Technologies' limit of liability and the user's exclusive remedy shall be the repair or replacement of the tool. Under no circumstances shall Adhesive Technologies, Inc. be liable for any incidental or consequential damages arising from the use of or inability to use the PRO-90 Industrial Glue Gun.

OUTSIDE

INSIDE