

MAINTENANCE PROCEDURES MODELS: #840P / #840P-R / #840P-G / #880

DAILY CLEANING

The hand spray gun should be flushed with solvent (or water) at the end of each shift. The flushing should be under low pressure (maximum 25 lbs.). The Air Cap should be removed, soaked, and brushed. Check for dirt particles in orifice. Also check the (#302) tip gasket for wear and breaks. Blowing tips and air caps dry with air is recommended

REBUILDING GUN (REFER TO SCHEMATIC)

- 1. Flush gun thoroughly
- 2. Remove air cap and tip from front of gun
- 3. Remove (#812) needle stop assembly
- 4. Remove (#811) needle spring
- 5. Remove the Needle from housing.
- 6. Determine which packing you have installed. If you see a white hex, you have the (#303) one-piece fluid packing, proceed to step 6a. If you see a gold hex you have the (#314) packing assembly, proceed to step 6b.
 - 6a. Unscrew (#303) one-piece fluid packing.
 - 6b. Unscrew (#311) packing screw from (#308) fluid tube. Using a curved dental pick, remove all (4) pieces, (1) brown leather packing and (3) white Teflon packings, of (#314) packing assembly.
- 7. Clean (#308) fluid tube with ½" diameter bottle brush and make sure tube is free of debris. Do not remove (#306-FM) fluid insert unless necessary.
 - 7a. If you remove the (#306-FM) fluid insert, remove all dried red thread locker from the external threads and internal threads of the (#308). Reapply new red thread locker to the external threads of the (#306-FM) fluid insert and screw into the (#308) fluid tube. Do not over tighten.
- 8. Replace:
 - a) (#302) Tip gasket
 - b) (#303) One-piece fluid packing or (#314) packing assembly & (#311) packing nut
 - c) (#811) Needle spring
 - d) (#813) Needle stop spring
- 9. Replace packing.
 - 9a. Screw (#303) one-piece fluid packing into (#308) fluid tube by hand. Apply non-silicone-based lubricant on needle past the taper. Insert needle. Tighten (#303) one-piece packing until just tight (overtightening will cause hex to break off).



- 9b. Place (#314) packing assembly and (#311) packing nut in between (#308) fluid tube and gun trigger. Insert needle into back of gun handle through (#314) packing assembly, (#311) packing nut and (#308) fluid tube. Peel off outer wax coating from (#314) packing assembly and carefully push all (4) pieces into (#308) fluid tube with the (#311) packing nut. Screw in (#311) packing nut slowly and remove needle making sure (#314) packing assembly does not come out of (#308) fluid tube. Leave loose until the final step.
- 10. Reinstall tip to front of gun followed by (#811) needle spring and (#812) needle stop assembly.
- 11. Apply non-silicone based lubricant to exposed needle between (#303) one-piece packing or (#311) packing nut and body. Actuate trigger to make sure needle moves freely. Tighten (#311) packing nut until needle stops moving forward, then loosen (#311) packing nut slowly until needle goes forward.
- **NOTE:** Please do not use metal of rigid instruments to clean gun parts this may cause permanent damage
- **NOTE:** Fluid control in the low range (1 to 15 Lbs.). A lack of control will cause gun fluid fluctuation as well as premature packing wear
- **NOTE:** A light grade lubricant that **DOES NOT** contain silicone should be used when reassembling gun packings, O-rings, fluid needles, and all threaded parts. Petroleum jelly is preferred

EACH WEEK

- Flush gun once per week if using black or clear.
- Flush each shift if using metallic or Zinc rich
- Remove tip and air cap and clean same as above
- Check and adjust packing use Vaseline if necessary

NOTE: Be sure to flush entire system from pot through gun if settling occurs

EACH MONTH

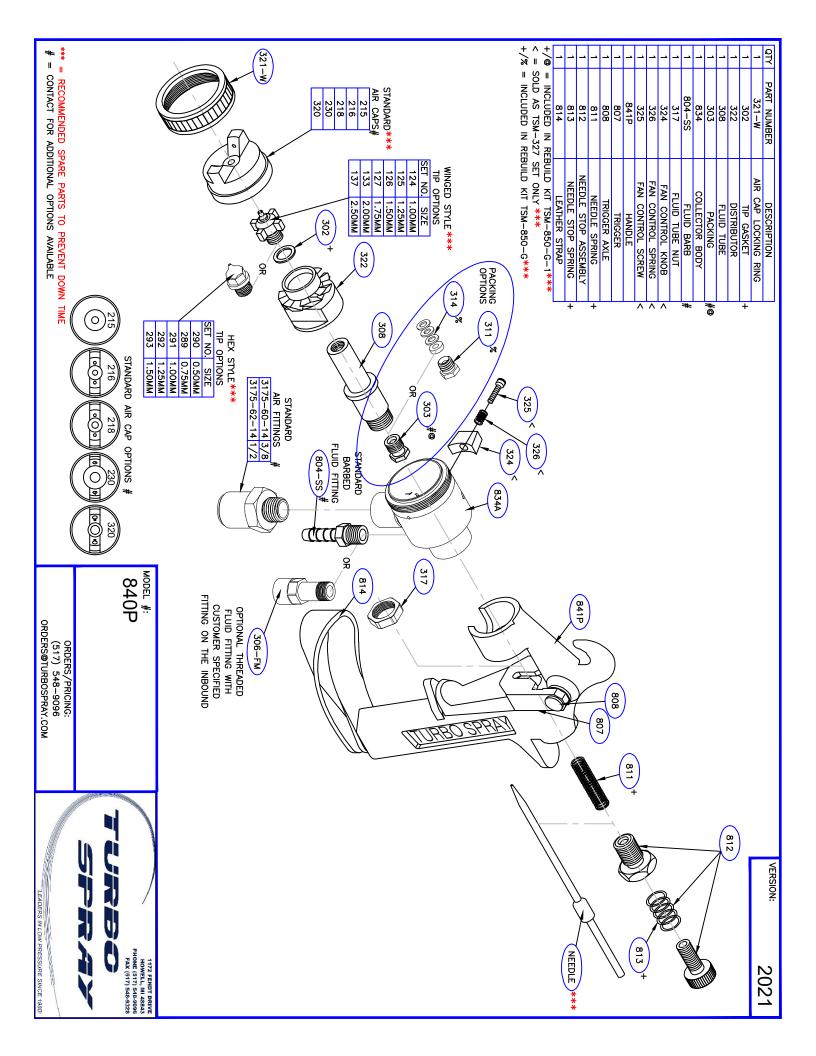
- Same check list as weekly
- Check sizing on tips and wear on needle by feeling seating area of needle. Replace if necessary

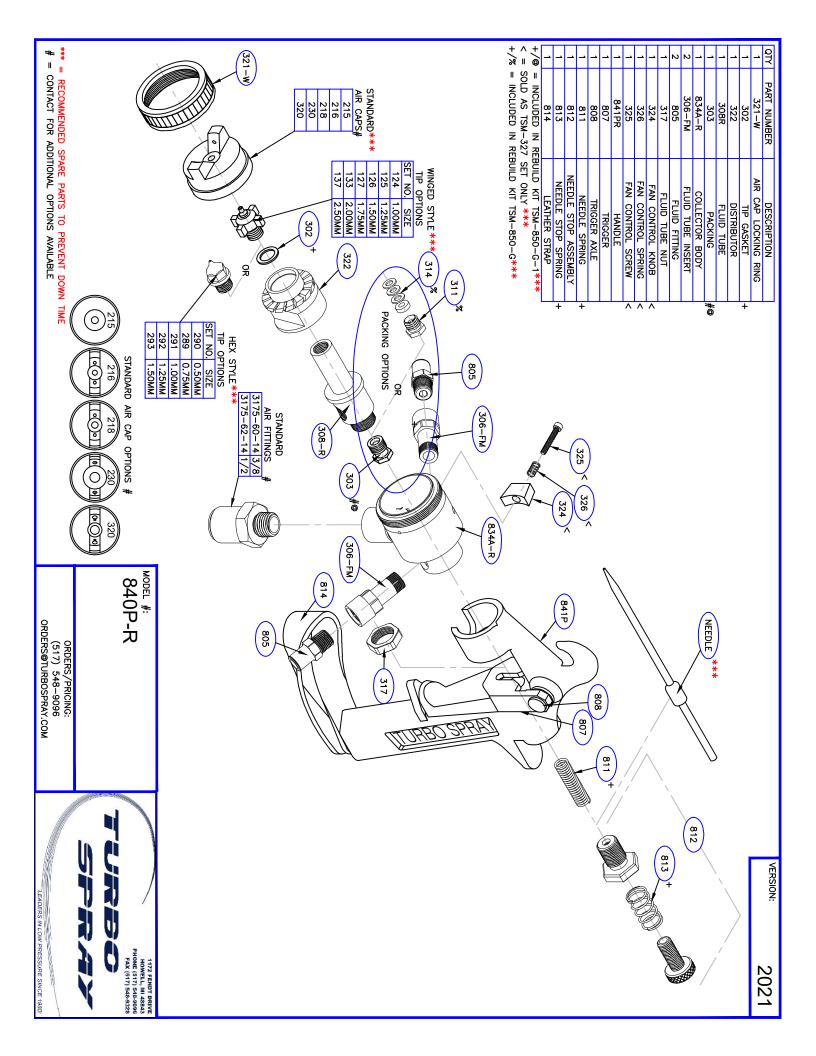


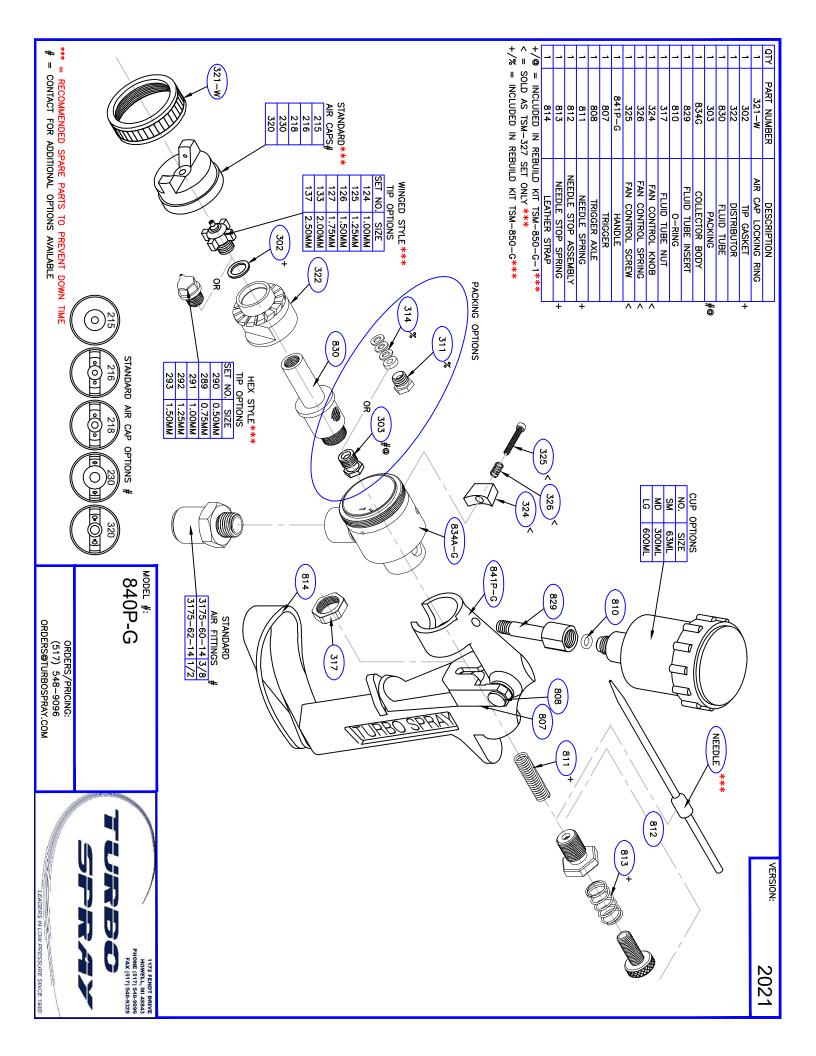
NOTE: If guns are cycled intensely (2-3 shifts per day), tips and needles should be replaced every month. They should be replaced every three months during regular use. This will help control the process. Be sure to replace as a set.

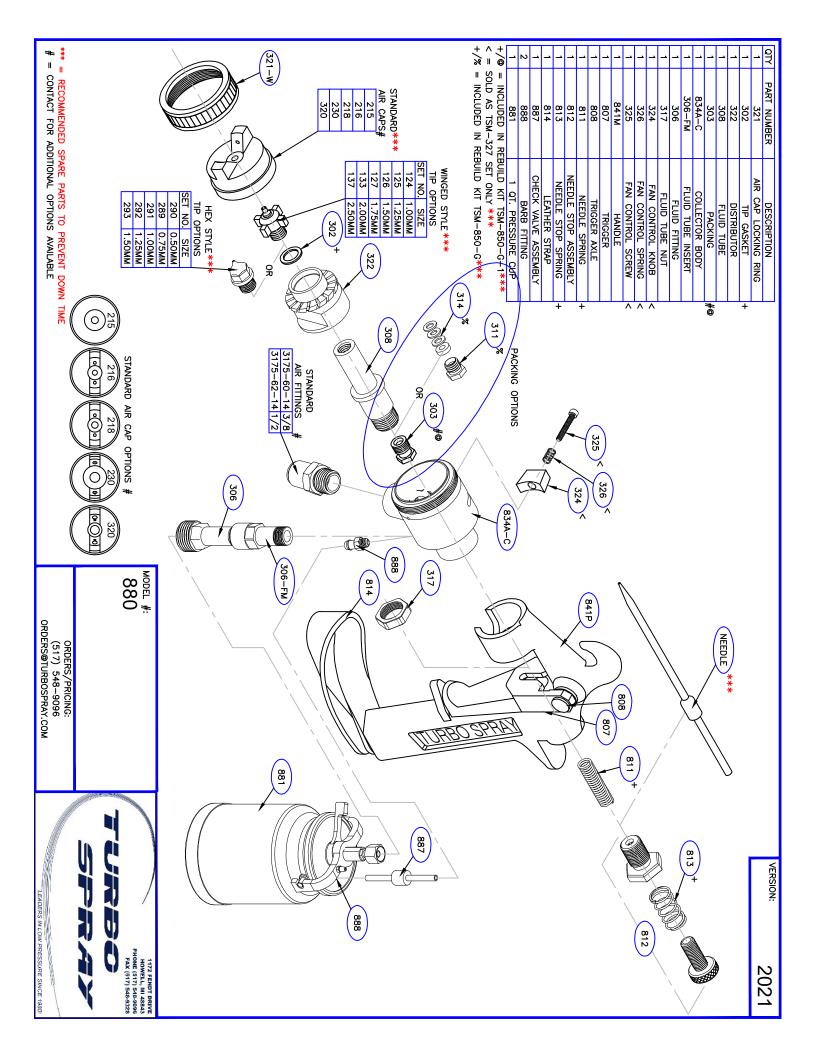
EVERY THREE MONTHS

• Rebuild guns











TROUBLE SHOOTING MODEL #840P / #840P-R / #840P-G / #880

PROBLEM SOLUTION

Tip Leakage Check fluid pressure. Should be in 4-8 Lb. range and constant

Use fluid regulators where possible.

Check #302 tip gasket.

Check packings which may be dry or contaminated with paint.

This will stop needle from seating in tip.

Check tip for dirt. Check for bent needle.

Check for excessive tip and needle wear

Spray Skip Check tip for dirt.

Remove tip and check needle travel - replace or lubricate packings

if necessary.

Check fluid pressure. Must be constant usually in the 4-8 lb. range

Use fluid regulators where possible.

Check paint fluid source - make sure all paint line fittings are tight. Make sure pump seal or siphon tube seals are not damaged and sealed tight. Special attention should be given to seal at the top of

siphon tube.

If paint is agitated, make sure agitator is turning slowly as not to

aerate paint or force it above fluid tube.

Fan Distortion Check side holes in air cap for obstructions.

Check fluid flow, must be low and constant. Use fluid regulators

where possible, especially in low ranges.

Check paint viscosity. High viscosity causes smaller fans.

Check ratio of air to fluid.

Lack of Paint Break Up Lower fluid supply.

Increase atomizing air.

Increase heat.

Decrease viscosity. Check air cap, tips and needles.



PROBLEM SOLUTION

Bent Needle Replace needle

Packing "stick" Lube needle in gun "cut" area as it enters packings

Needle "Stick" (P-M) each day

Tighten packing after one week break in (1/2 turn)

Replace if worn

Move small I.D. packing ring to front to wipe needle better

** Please note that fluid control in the low ranges (4-8 lb) is critical. A lack of control will cause gun fluctuation. To check, cut atomizing air, set fluid control, and check consistency of stream at the desired low PSI setting. Additional low pressure, sensitive fluid regulators (1-15 PSI) may have to be located close to the Turbo Spray guns. Use regulator #918 for robot.