

March, 1986

SERVICE BULLETIN 86-1

Subject: Pilot Tube Damage - 900 and 901 Series RV Furnace

Since April 1985, all 900 Series furnaces have been equipped with a 1/8-inch diameter pilot tube, rather than a 1/4-inch tube. The purpose of the smaller tube is to provide LP gas to the igniter faster to insure smoother ignition starts.

This 1/8-inch tube is also supplied with the gas control replacement kit we have been supplying for field replacement since May 1985.

Since the introduction of the smaller pilot tube, we have received several reports of a raw gas smell when the furnace is operating. Upon investigation, it was found that the female nut, which connects the pilot tube to the burner pipe or gas control, had been over-tightened, causing the ferrule to squeeze the tube until it cracked.

The purpose of this Service Bulletin is two-fold:

1. Use caution when installing the 1/8-inch pilot tube. **DO NOT OVER-TIGHTEN THE FEMALE NUT!** Proper procedure is tightening the nut FINGER-TIGHT PLUS 1/2 TURN.
2. On all 900 and 90 I Series furnaces you are servicing, this connection should be checked for damage or gas leakage as part of the checkout procedure. A time allowance for this is already included in the Flat Rate Schedules. Use the following procedure:

TESTING FOR GAS LEAKS

Place the furnace upside down on a metal surface and connect 12 volt DC and an LP gas supply to the furnace. Apply a commercial bubble solution to all connections, including pilot tube connections. **DO NOT USE HOUSEHOLD DETERGENTS**, as these may contain ammonia, which will weaken brass fittings.

Connect the two blue thermostat leads together to start the burner. While the burner is operating observe all fittings for leaks, and correct if necessary.

CAUTION:

DO NOT OPERATE BURNER FOR MORE THAN ONE (1) MINUTE FOR THIS TEST AS THE HEAT EXCHANGER MAY OVERHEAT.