

**PRODUCT NEWS BULLETIN**

PN348081006

Date: June 10, 2008

**Product Improvement  
Link Pivot Pin**

Applicable to all Carter 64348 Commercial and 64049 & 64349 Military Nozzles

A key part of the 64348/64049/64349 family of nozzles has been redesigned to lengthen its life. The 220886 Pin (Item 31 Figure 2 of SM64348, SM64049, & SM64349) is part of the opening/closing mechanism. The material from which this part is made has been changed and hardened to reduce wear. The earlier design Pin was made of a 300 series corrosion resistance steel that can not be hardened. The new Pin will be made of A286 Corrosion Resistant Steel per AMS 5731 or AMS 5737 and hardened to C30 Rockwell.

A similar Pin (p/n 207788) exists in the obsolete 61428/64129 family of nozzles (the predecessors to the 64348/64349 family of nozzles). This pin has not been changed and it is recommended that any of these nozzles still in use should be either upgraded to 64348/64349 nozzles or replaced.

The existing Pin has not changed since the 64348/64349 family of nozzles went into production back in 1992, but there have been several cases of excessively worn Pins discovered recently. Although this pin is subject to normal wear from continual use, wear is accelerated on the pin by even slight "over" adjustment of the position of the poppet to stop/prevent poppet leakage. This adjustment is currently outlined in paragraph 8.1.4 of all three service manuals as follows:

"Use Poppet Adjustment Gauge, 64000, to facilitate the adjustment of the Poppet (15) onto the Shaft (32). Follow instructions furnished with the gauge. If the gauge is not used, place a straight edge across the center of the elastomer lip of the Seal (41). Using feeler gauges to measure the average dimension between the bottom of the straight edge and the Poppet (15) face. This dimension should be .070 to .110 inches (1.8 to 2.8 mm). If it is not, calculate the required poppet dimension as follows: (one quarter (1/4) turn of the Poppet (15) axially displaces the Poppet (15) face about .020 inches (.051 mm).

A. If the feeler gauge measurement is too long, prepare to unscrew (loosen) the Poppet (15) one quarter (1/4) turn for each .020 (.051 mm) inches of required adjustment.

B. If the measurement is too short, prepare to tighten the Poppet (15) one quarter (1/4) turn for each .020 (.051 mm) inches of required adjustment."

Poppet adjustment tools are available as part number 64000. Contact your Carter distributor for price and delivery.

This Pin is manufactured from a commercially available aerospace standard screw made of 300 series corrosion resistant steel, and recent Pins may have been made from a lower grade than those made previously. Owners of Model 64348, 64049 or 64349 Nozzles less than a year old may obtain a no charge replacement by providing their local Carter distributor with the serial number of their nozzle(s) in question. The following serial numbers qualify:

- 64049 - Serial Numbers higher than - 850
- 64348 - Serial Numbers higher than - 17817
- 64349 - Serial Numbers higher than - 24303

All nozzles should be inspected during normal overhaul and maintenance cycles in accordance with paragraph 7.0 ("INSPECTION") of all three service manuals, wherein it states:

"Bearing diameter of item 31 Pin (.300 inches (7.62 mm) diameter min.)"

Additionally, if a nozzle requires repeated Poppet adjustments to prevent Poppet leakage, further inspection of this Pin should be completed to ensure that the problem is not being caused by a worn Pin.

