



AFFECTING MODEL A-30 ENCODERS TO SERIAL NUMBER 38567
JUNE 12,1990

TO: ALL A-30 ALTITUDE ENCODER DISTRIBUTORS
PLEASE PROVIDE COPIES OF THIS LETTER
TO ALL INSTALLING DEALERS
RE: MODIFICATION OF THE A-30 TO MOD 3 STATUS

Beginning with serial number 38568 a new improved cable assembly is used on the model A-30.

The original cable assembly was a ribbon cable in which the terminating headers are a mechanical connection. As the unit have aged service history has shown that the thermal cycling to which this cable is subjected has caused the mechanical connection to become unreliable on some units.

To check for this condition apply power to the unit and allow to warm up. Vent static port to the atmosphere and monitor the code output. If the ambient pressure is very close to a transition point the readout may be fluctuating +/- 100 feet. This is normal operation. With the encoder on a hard surface place your thumbs on the top cover on each side of the transducer static port. Press firmly down on the cover and observe the code readout. If the code changes more than 100 feet this indicates a bad cable assembly. If the code changes only 100 feet but return to its original reading when the case pressure is released, this is normal condition.

Our service kit p/n A-30-3 contains the new cable assembly and replacement foam cover and may be ordered directly from us or from your ACK distributor.

Important check the cable for proper wire color position against the drawing below before installing.

To replace the ribbon cable assembly disconnect power and remove the top cover. Unplug the analog board assembly and remove the foam cover. There are two methods for replacing the cable.

1. If de soldering equipment is available de solder the ribbon cable header from the analog board assembly and solder the new cable assembly as shown below.

2. The cable may be replaced without de soldering by removing the ribbon cable header retaining cover and pulling the ribbon cable off of the header. Cut the two lugs on the header and bend the remaining lugs as shown below. Solder in the new cable assembly as shown below.

Replace the foam cover by placing the top half in the top cover of the encoder for alignment. Use a hot glue gun to place a bead of glue all around the mating surfaces. Place the bottom half in place and use a weight to hold in place while the glue cools.

Plug the analog board assembly back in to the main board as shown below. Replace the top cover and re calibrate the unit.

