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FIELD SERVICE BULLETIN

BRAKE ASSEMBLY REWORK

In cases where the Hayes Goodrich brakes are leaking due to rupture of the expander tube within the brake assembly, the 145 89024 kit (consisting of 145-33215 reinforcement plates, and 145-33214 valve section reinforcement plates) should be installed as follows at time expander tube replacement is made:

1. Jack the airplane in the manner prescribed, and remove the main wheels.
2. Remove the brake assembly from the landing gear and disassemble the brake unit and lining as prescribed on page 48, figure 34, of the Navion Service Manual.
3. Remove the expander tube from the brake assembly by separating the halves of the assembly.
4. Remove the nuts, nut cap, and washer from the expander tube valve, and install 145-33214 flanged reinforcement plate over the valve; replace the previously removed washer and retaining nut.
5. Install the expander tube, and reassemble the brake halves. Install the nut cap and retaining nut on the valve.
6. Install the seven 145-33215 reinforcement plates with ends over spacers in such manner as to form a steel band around the expander tube. Install brake lining and retaining springs.
7. Install brake assembly on landing gear strut, and bleed the brake system in the manner prescribed on page 5 of the Navion Service Manual.
8. Mark reworked brake with black stripe 1/2 inch wide on outside housing, to aid in identification of brake assembly rework.

NOTE: This installation should not exceed 4 man hours using a maximum crew of two men.

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