

DESCRIPTION AND MAINTENANCE INSTRUCTIONS

MAGNAFLUX INSPECTION OF AN BOLTS

INFORMATION

- 1 Beech engineering drawings specify that many AN bolts used in the Expeditor aircraft are to be 100% magnaflux inspected before use. These bolts are listed in EO 05-45B-4 under their regular AN number with the suffix (M) added and may be physically identified by the letter "M" etched or stamped on the bolt head.
- 2 Magnaflux inspected bolts are a requirement of Specification MIL-1-6870 which directs that all bolts 1/4" and over in nominal diameter, of ferro-magnetic materials and for which the specific minimum hardness is above Rockwell C-26, shall be 100% inspected. Bolts such as described are to be found in assemblies bearing considerable strain and where failure would adversely affect airworthiness; i. e., engine bearers, undercarriage, control pulleys etc.
- 3 The risk of inadvertent replacement of the magnaflux inspected bolts with stock non-inspected AN bolts is readily apparent when maintenance personnel are uninformed.

INSTRUCTION

- 4 When replacement of 1/4" or over ferrous bolts is necessary, EO 05-45B-4 is to be consulted to determine if the bolt in question bears the suffix (M). If it does a section 28/ replacement bolt shall be selected and magnaflux inspected for cracks using RCAF Ref. 35/10177 electro-magnetic crack detector (available to all Expeditor user units). Upon passing inspection the letter "M" is to be stamped, etched or dye marked on the bolt head.

ISSUED ON AUTHORITY OF THE CHIEF OF THE AIR STAFF