



SERVICE INFORMATION LETTER

SERVICE INFORMATION LETTER NO. 0156

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DATE: December 9, 2003

1. SUBJECT: Main Rotor Push-Pull Rod, P/N 28-16253-“X”, Serviceability Inspection Criteria

2. MODEL: F-28A, F-28C, F-28F, 280, 280C, 280F, and 280FX

3. EFFECTIVITY: All serial numbers

4. BACKGROUND:

The maintenance manuals applicable to the F-28/280 series of helicopters do not contain inspection criteria for determining the serviceability of the Main Rotor Push-Pull Rod, P/N 28-16253-“X”.

This Service Information Letter provides the inspection criteria for determining the serviceability of the Main Rotor Push-Pull Rod, P/N 28-16253-“X”.

5. COMPLIANCE:

Maintenance personnel should use the inspection criteria listed in paragraph 5.1 to determine the serviceability of the Main Rotor Push-Pull Rod(s), P/N 28-16253-“X”, during replacement of the main rotor gearbox and whenever the push-pull rod(s) are removed from the aircraft.

5.1. INSPECTION CRITERIA:

Refer to Table 1 for the main rotor push-pull rod inspection criteria.

5.2. PARTS:

Refer to the Enstrom F-28/280 Series Illustrated Parts Catalog and Service Directive Bulletin 0096 for the latest replacement parts information.

6. SPECIAL TOOLS: N/A

7. MAN-HOURS: N/A

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8. WARRANTY: N/A
9. WEIGHT CHANGE: N/A
10. LOG BOOK ENTRY: N/A
11. REPETITIVE INSPECTION: As recommended in paragraph 5.1.

Table 1. Main Rotor Push-Pull Rod, P/N 28-16253-“X”, Inspection Requirements

Part Name	Inspection	Serviceable Limits	Repair Limits	Repair or Action
Push-Pull Rod Assembly	Cracks or Dents	None Allowed	Not Repairable	Replace Push-Pull Rod Assembly
	Nicks, scratches, or corrosion in Area A (See Figure 1)	.007"/.18 mm (See Repair or Action)	.007"/.18 mm	Blend and polish out smooth
	Nicks, scratches, or corrosion in Area B (See Figure 1)	.015"/.38 mm (See Repair or Action)	.015"/.38 mm	Blend and polish out smooth
	Bent push-pull rod assembly (See Figure2)	.030"/.76mm	.030"/.76 mm	Replace Push-Pull Rod Assembly
Lower Fitting	Cracks	None Allowed	Not Repairable	Replace Push-Pull Rod Assembly
	Contact wear from guide tube assembly (See Figure 3)	.030"/.76mm (See Repair or Action)	.030"/.76mm*	Blend and polish out smooth
	Threads (rolled or missing)	None Allowed	Not Repairable	Replace Push-Pull Rod Assembly
Upper Fitting	Cracks	None Allowed	Not Repairable	Replace Upper Fitting or Replace Push-Pull Rod Assembly
	Nicks, scratches, or corrosion	.010"/.25mm (See Repair or Action)	.010"/.25 mm	Blend and polish out smooth
	Bore wear on Bronze Bushings, P/N 28-16201-1 (-1 & -105 Rod Assemblies)	.380"/9.65 mm	Not Repairable	Replace Bronze Bushings
	Bore wear on Bearing, P/N MS21240-08-C-12 (-101 & -103 Rod Assemblies)	.505"/12.83 mm	Not Repairable	Replace Bearing
Vinyl Sleeve	Wear	Worn thru	Not Repairable	Replace Vinyl Sleeve

* Contact wear can be repaired on two sides of the lower fitting. The rod assembly may be rotated 180° and reused when the contact wear reaches the repair limit on one side. Refer to Figure 3.

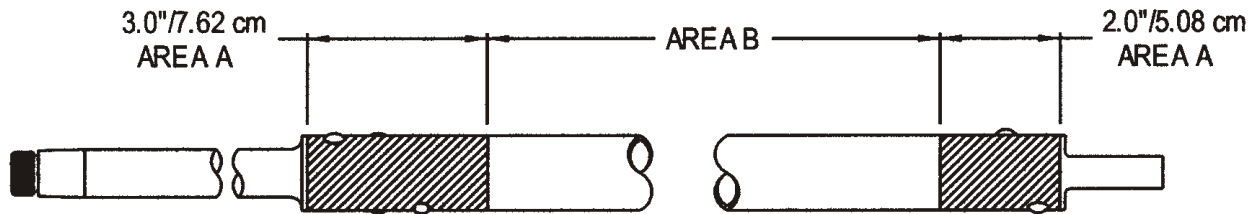


Figure 1. Inspection Area Identification

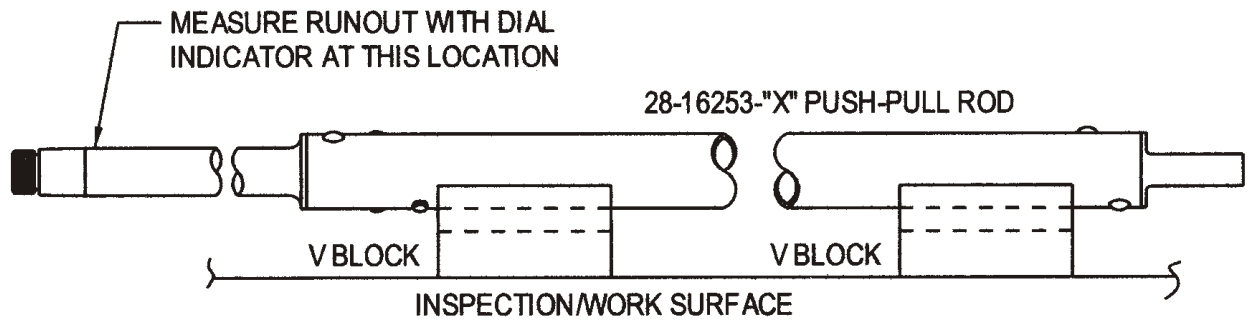


Figure 2. Push-Pull Rod Runout Inspection

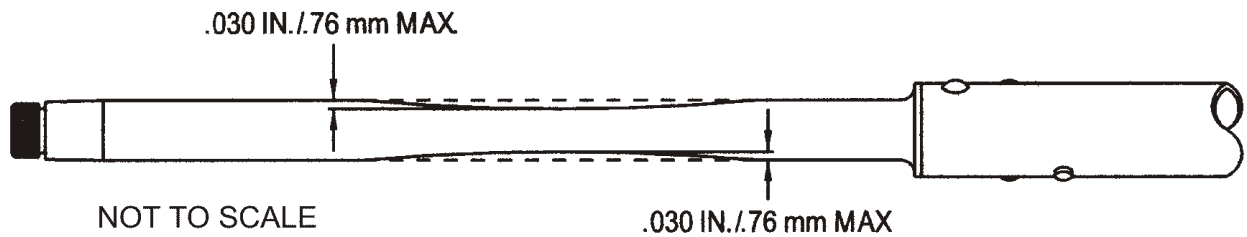


Figure 3. Lower Fitting Contact Wear Limits