Planning Information

Re-Positioning of de-ice cables to improve long time wear. During the next inspection/repair or overhaul the de-ice cables should be re-oriented to reduce the wear.

Affected Propellers:

- MTV-27-1-N-C-F-R(P)/CFR260-65a with spinner assembly P-1059-( ) installed on Pilatus PC 12
  Manufactured or overhauled or repaired before 01/2014.
- MTV-27-1-E-C-F-R(P)/CFR225-55f with spinner assembly P-1228-()-P-1127-() installed on TBM700/850 / Beech King Air-200 Series / Piper PA 31 Series / Piper PA 46 Series
  Manufactured or overhauled or repaired before 01/2014.
- MTV-27-1-E-C-F-R(G)/CFRL250-55b with spinner assembly P-898-1-() installed on Dornier 228-Series
  Manufactured or overhauled or repaired before 01/2014.
- MTV-27-1-E-C-F-R(G)/CFR210-58d/CFRL240-55d with spinner assembly P-1266-( ) installed on
  MU-2 B Series
  Manufactured or overhauled or repaired before 01/2014.
- MTV-27-1-E-C-F-R(G)/CFR210-58d/CFRL240-55d/CFRL250-103 with spinner assembly P-1096-( )/P-1096-1-( ) installed on
  SA227-AC/-AT/-BC/-TT/, Metro 23/, Metro 3/ Merlin 4/ Jetstream 31/32
  Manufactured or overhauled or repaired before 01/2014.

Reason:
During operation some wear on the de-ice cables were reported.

Affected Publications:
Overhaul Manual E-680, Service Instruction 4-()

General Work Procedure:
- Cable clamp repositioning according the following instructions for the respective application
- Stop nut are reusable up to 3 times
- No special tools required

1. MTV-27-1-N-C-F-R(P)/CFR260-65a installed on Pilatus PC 12 with spinner assembly P-1059-():

Work Procedure:
- Clamp on the connectors according to the picture New Clamp Position.
- Check de-ice cable length (New part number de-ice cable 4E2071-2 or 4H2071-2)
- The 10 spinner screws C-306-8 (AN526C1032R8; overall length 15 mm/0.59 inch) used to mount the filler plate to the spinner dome between front and rear spinner bulkhead should be replaced by the 10 spinner screws C-306-7 (AN526C1032R7; overall length 13.72 mm / 0.54 inch) that they do not protrude the self locking nut which can wear out the de-ice cable.

Present cable installations on spinner bulkhead

Present Clamp Position

New cable installation

New Clamp Position
Continued 1.

New cable installation on counterweight body

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2. MTV-27-1-E-C-F-R(P)/CFR225-55/CFR210-58d installed on TBM700/850 / Piper PA 31/ Piper PA 46
Beech King Air-200 Series with spinner assembly P-1228-()/P-1127-():

Required Parts for one Propeller:
5x A-1189-3 (replacement for A-1189-1)

Work Procedure:
Check de-ice cable length (New part number de-ice cable 4E2071-2 or 4H2071-2)

New cable installation on rear spinner bulkhead and counterweight body
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3. MTV-27-1-E-C-F-R(G)/CFRL250-55b installed on Dornier 228-Series with spinner assembly P-898-1-():

**Required Parts for one Propeller:**
5x A-1189-3 (replacement for A-1189-1)
5x C-465-1 (Rubber protection in spinner bulkhead)

**Work Procedure:**
Check de-ice cable length (Part number de-ice cable 4E2071-2 or 4H2071-2 or optional new improved system 4E2075-2)
Position propeller blades in the start lock (see operation and installation manual E-610)

1. To reposition the clamp make a new 0.433”(11 mm) bore ; 0.393”(10 mm) left from the old cable clamp location and 0.984”(25 mm) rectangulaire high as shown in Fig.1.
2. Deburr the new bore and install rubber protection C-465-1.
3. Install clamp with cable at new location (Engine Side) according the picture on the right side of the cable connectors(Engine Side) as shown in Fig 2.

![Fig. 1](image1)

![New cable installation on rear spinner bulkhead](image2)
Continued 3.

Or optional improved cable installation with 4E2075-2 cable and C-151-1 clamp. The removed vulcanized rubber on one side of the wire 4E2075-2 will give the cable on the counterweight side more flexing and can improve the life time. **Note:** The new clamp position is applicable on all cable types.
4. MTV-27-1-E-C-F-R(G)/CFR210-58d/CFRL240-55d installed on MU-2-B-Series with spinner assembly P-1266-() :

Required Parts for one Propeller:
- 5x A-1189-3 (replacement for A-1189-1)
- 5x C-465-1 (Rubber protection in spinner bulkhead)

**Work Procedure:**

Check de-ice cable length (Part number de-ice cable 4E2071-2 or 4H2071-2 or optional new improved system 4E2075-2)

Position propeller blades in the start lock (see operation and installation manual E-610)

1. To reposition the clamp make a new 0,433" (11 mm) bore; 0,629" (16 mm) left (CFRL Application)/right (CFR Application) from the old cable clamp location and 0,866" (22 mm) rectangulaire high as shown in Fig.3.
2. Deburr the new bore and install rubber protection C-465-1.
3. Install clamp with cable at new location (Engine Side) according to Fig 4.
Continued 4.

*Or optional improved cable installation with 4E2075-2 cable and C-151-1 clamp.*

The removed vulcanized rubber on one side of the wire 4E2075-2 will give the cable on the counterweight side more flexing and can improve the life time.

**Note:** The new clamp position is applicable on all cable types.
5. MTV-27-1-E-C-F-R(G)/CFRL240-55d/CFRL250-103 installed on SA227-AC/-AT/-BC/-TT, Metro23, Metro3, Merlin 4, Jetstream 31/32 with spinner assembly P-1096(-) / P-1096-1(-)

Required Parts for one Propeller:
5x A-1189-3 (replacement for A-1189-1)
5x C-465-1 (Rubber protection in spinner bulkhead)

Work Procedure:
Check de-ice cable length (Part number de-ice cable 4E2071-2 or 4H2071-2 or optional new improved system 4E2075-2)
Position propeller blades in the start lock (see operation and installation manual E-610)

1. To reposition the clamp make a new 0.433" (11 mm) bore: 0.590" (15 mm) left (CFRL Application)/right (CPR Application) from the old cable clamp location and 0.629" (16 mm) rectangular high as shown in Fig.5.
2. Deburr the new bore and install rubber protection C-465-1.
3. Install clamp with cable at new location (Engine Side) according to Fig 6.

Fig.5

New cable installation on rear spinner bulkhead

Fig.6
Continued 5.

Or optional improved cable installation with 4E2075-2 cable and C-151-1 clamp
The removed vulcanized rubber on one side of the wire 4E2075-2 will give the cable on the counterweight side more flexing and can improve the life time.

Note: The new clamp position is applicable on all cable types.