



SERVICE DIRECTIVE BULLETIN

SERVICE DIRECTIVE BULLETIN NO. T-049

Page 1 of 3

DATE: November 6, 2014

1. SUBJECT: Overrunning Clutch Assembly
2. MODEL: 480 and 480B
3. EFFECTIVITY: Refer to Table 1
4. BACKGROUND:

Upon inventory inspection, it was discovered that P/N N5000 series retaining rings were inadvertently stocked as P/N N5100-137-S-PP. The N5000 retaining rings were used in overrunning clutch (ORC) assembly serial numbers listed in Table 1. In this particular installation, the N5000 functions similarly to the N5100 and is not a safety of flight concern. Figure 1 depicts a side-by-side comparison of the N5000 and N5100 retaining rings.

If an installation or spares inventory consists of an overrunning clutch assembly identified by a serial number listed in Table 1, this SDB (Service Directive Bulletin) requires replacement of the suspect retaining ring to the approved N5100-137-S-PP retaining ring.

5. COMPLIANCE:

At the next scheduled inspection, remove the retaining ring and replace with approved N5100-137-S-PP retaining ring in accordance with paragraph 6.

6. PROCEDURE:

NOTE

Perform all maintenance in accordance with the TH-28/480 Series Maintenance Manual (MM). Also, refer to TH-28/480 Series Illustrated Parts Catalog (IPC) Figures 7-1, 7-1.1, and 7-2 (see paragraph 7, Parts).

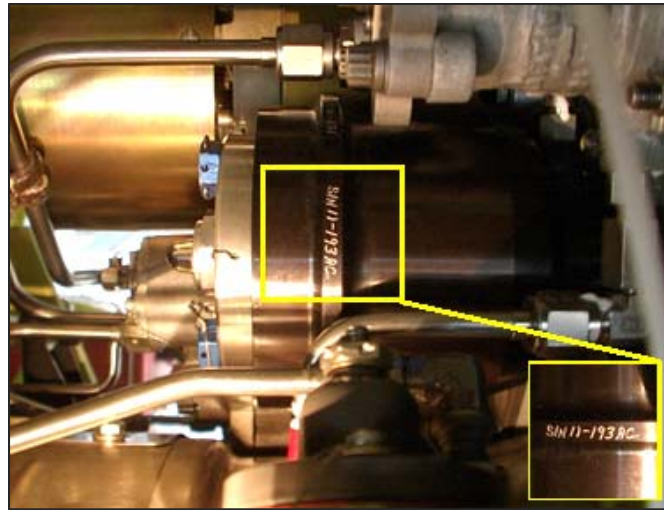
- 6.1 Review the aircraft component records or the spare component records and determine if the serial number of the installed or spare overrunning clutch assembly matches a serial number listed in Table 1. Alternatively, the serial number is engraved on the outer flange of the overrunning clutch (Figure 2). If necessary, slowly turn the tail rotor assembly to spin the ORC when locating the serial number. If the serial number does not match any of the listed serial numbers, no further action is required.
- 6.2 Remove the overrunning clutch (MM para. 11-5).
- 6.3 Remove the retaining ring and replace with approved N5100-137-S-PP retaining ring.
- 6.4 Install the overrunning clutch (MM para. 11-8).

Table 1. Affected Overrunning Clutch Assembly Serial Numbers

Overrunning Clutch Assembly S/N			
0024A	13-230-AC	13-241-AC	13-262-AC
12-217-AC	13-231-AC	13-244-AC	13-263-AC
12-219-AC	13-232-AC	13-247-AC	13-265-AC
12-220-AC	13-233-AC	13-249-AC	13-266-AC
12-222-AC	13-234-AC	13-255-AC	13-267-AC
13-223-AC	13-235-AC	13-256-AC	13-270-AC
13-224-AC	13-236-AC	13-257-AC	13-271-AC
13-225-AC	13-237-AC	13-258-AC	13-272-AC
13-226-AC	13-238-AC	13-259-AC	
13-228-AC	13-239-AC	13-260-AC	
13-229-AC	13-240-AC	13-261-AC	



Figure 1. N5000 and N5100 retaining rings



**Figure 2. Locating ORC assembly serial number
(viewed from the left side engine access)**

7. PARTS:

IPC Reference	Item Number	Part Number	Description	Quantity
Figure 7-1	7	N5100-137-S-PP	Retaining Ring	1
	8	2-141	O-ring	1
	10	2-041	O-ring	1
	14	NAS1612-2A	O-ring	1
	16	23053995	Gasket	1
	18	MS21042-4	Nut	6
IPC Figure 7-1.1	190	3-902 V747-75	O-ring	1
IPC Figure 7-2	4	2-141	O-ring	1
	10	23053995	Gasket	1

8. SPECIAL TOOLS: N/A

9. MAN-HOURS: 8.0

10. WARRANTY: Per Enstrom Warranty Policy

11. WEIGHT CHANGE: None

12. LOG BOOK ENTRY: As required for maintenance actions

13. REPETITIVE ACTION: N/A