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## LUFTDYKTIGHETSPÅBUD (LDP)

MOTORDREVNE LUFT-  
FARTØY

BOEING VERTOL - 1

Med hjemmel i lov om luftfart av 16. desember 1960 §§ 214 og 43 jfr. kgl. res. av 8. desember 1961, litra K og Samferdselsdepartementets bemyndigelse av 23. mars 1964 fastsetter Luftfartsverket følgende forskrift om luftdyktighet.

### 101/86 KONTROLL AV "DRIVE TRAIN SYNCHRONIZING COMPONENTS"

#### Påbudet gjelder:

Boeing Vertol BV 234LR

#### Påbudet omfatter:

For å verifisere den strukturelle integritet av "drive train synchronizing components" skal utskiftning og kontroll utføres som angitt i bilag 1 til dette luftdyktighetpåbud.

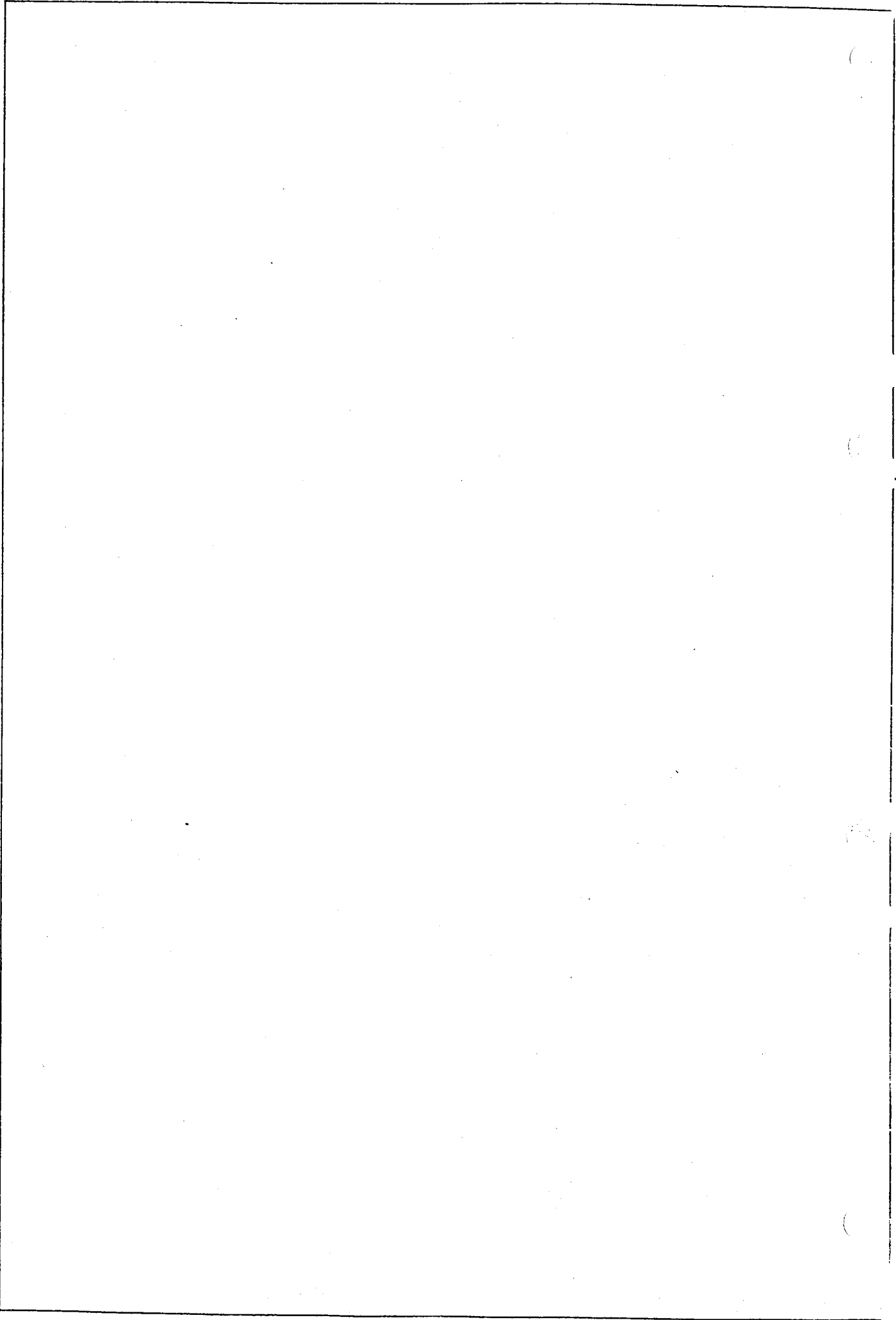
#### Tid for utførelse:

Som angitt i bilag 1.

#### Referanse:

LF1

28.11.86



DRIVE TRAIN SYNCHRONIZING COMPONENTS, DETAILED INSPECTION OF.

1. General

A. Affects:

BV 234LR fwd, aft and comb. XMSN, fwd and aft sync. shaft assemblies and aft vertical shaft.

B. Reason:

Norwegian CAA inspection requirements.

C. Action:

O/H type inspection of critical synchronizing components.

D. Weight and Balance:

N/A

E. Drawings Required:

N/A

2. Accomplishment Instructions

A. Comply with FAA AD 86-23-51, latest revision.

B. Perform inspection, according to BV 234-5 Component Repair/Overhaul Manual; overhaul criteria, on the following components:

- 1) P/N 114D1244-5, spiral bevel ring gear, fwd gearbox.
- 2) P/N 234D1243-1, first stage sun gear, fwd gearbox.
- 3) P/N 114D2257-1, spacer shim, fwd and aft gearbox.
- 4) P/N 114D2254-5, spiral bevel ring gear, aft gearbox.
- 5) P/N 234D2250-1, first stage sun gear, aft gearbox.

Use new hardware when reinstalling parts.

Bolt: P/N BACB30MT6T12

Washer: P/N BACW10BP6P

Nut: P/N BACN10TW6

C. Perform an "O/H type inspection of critical gearbox components" in accordance with BIH History sheets M3522 (fwd XMSN) and M3523 (aft XMSN), latest revisions, on the following components:

1. Fwd Transmission P/N 234D1200 -all dash numbers.
2. Aft Transmission P/N 234D2200 -all dash numbers.

D. Perform inspection in accordance with BV234-5 Component Repair/Overhaul Manual; overhaul criteria, on the following components:

1. Fwd. sync. shaft P/N 114D3213 -5 and -14.
2. Aft sync shaft P/N 414D3213 -6 and -15.
3. Sync. shaft adapter assembly P/N 414D3212 - all dash numbers.

- E. Perform NDT-inspection of aft vertical shaft assembly P/N 234D3350-1, limited to the shaft lower drive splines. (This may be completed in-situ).
- F. Perform the following inspection of the Combining Transmission P/N 234D5200 - all dash numbers.
  - 1. NDT inspection of the fwd and aft output shafts, coupling and spiral bevel gear.
  - 2. Inspection of the main line bearing (6 each), in accordance with overhaul criteria.
  - 3. Detailed visual inspection of the main line drive splines.

3. Time of Compliance

- 2 A. Before first flight after 28.11.86.
- 2 B. For gearboxes with less than 300 h time since overhaul (TSO):  
Before 300 h TSO; and thereafter at 300 h intervals.  
  
For gearboxes with more than 300 h TSO:  
Before first flight after 28.11.86, and thereafter at 300 h intervals.
- 2 C. For gearboxes with less than 600 h TSO:  
Before 600 h TSO and thereafter at 600 h intervals.  
  
For gearboxes with more than 600 h TSO:  
Before first flight after 28.11.86, and thereafter at 600 h intervals.
- 2 D. For sync. shafts and sync. shaft adapter assemblies with less than 600 h TSO:  
Before 600 h TSO and thereafter at 600 h intervals.  
  
For sync. shafts and sync. shaft adapter assemblies with more than 600 h TSO:  
Before first flight after 28.11.86, and thereafter at 600 h intervals.
- 2 E. For vertical shaft assemblies with less than 600 h time since inspection (TSI):  
Before 600h TSI and thereafter at 600 intervals.  
  
For vertical shaft assemblies with more than 600 h TSI:  
Before first flight after 28.11.86, and thereafter at 600 h intervals.
- 2 F. For combining transmissions with less than 600 h TSI:  
Before 600 h TSI and thereafter at 600 h intervals.  
  
For combining transmissions with more than 600 h TSI:  
Before first flight after 28.11.86, and thereafter at 600 h intervals.

4. Reference:

FAA AD 86-23-51.  
BV 234-5 Component Repair/Overhaul Manual.  
BIH History sheet M3522  
BIH History sheet M3523