

Number: SB2X-76-05**Issued: 29 Oct 2024**

SNS SUBJECT: 76-10 POWER CONTROL - Upper Power Lever Inspection and Replacement

1. COMPLIANCE

Mandatory: Cirrus Aircraft considers this Service Bulletin to be MANDATORY. Accomplish this Service Bulletin within 10 flight hours. Compliance time begins upon receipt of this Service Bulletin.

2. EFFECTIVITY

SR20 Serials 2016 thru 9749 w/ Perspective or Perspective+ Avionics, w/ 2000 flight hours or greater

SR22 Serials 2979, 2992, 3002, 3026 thru 9749 w/ Perspective or Perspective+ Avionics, w/ 2000 flight hours or greater

SR22T Serials 0001 thru 9749 w/ Perspective or Perspective+ Avionics, w/ 2000 flight hours or greater

3. APPROVAL

FAA approval has been obtained on all technical data in this Service Bulletin that affects type design.

4. PURPOSE

Cirrus has received reports that the upper power lever may crack if repeatedly subjected to high input forces when the power lever is at the forward or aft stop. Cirrus recommends inspection and if required, replacement of the upper power lever.

5. DESCRIPTION

This Service Bulletin contains instructions to inspect the upper power lever and, if necessary, replace upper power lever if cracks are found.

6. WARRANTY INFORMATION

For aircraft under warranty, Cirrus will cover all parts and labor costs for this Service Bulletin if the work is accomplished within the Compliance time period and the work is performed at a Cirrus Authorized Service Center.

7. MANPOWER REQUIREMENTS

2.0 man-hours

8. OTHER PUBLICATIONS AFFECTED

SR20 Airplane Maintenance Manual (P/N 12137-001)

SR20 Airplane Maintenance Manual (P/N 12137-002)

SR22/SR22T Airplane Maintenance Manual (P/N 13773-001)

SR22/SR22T Airplane Maintenance Manual (P/N 13773-002)

9. WEIGHT AND BALANCE

N/A

10. MATERIAL INFORMATION

The following parts may be required to comply with this Service Bulletin. Parts can be obtained from a Cirrus Authorized Service Center or Parts Distributor. Obtain the following parts.

Item No.	Description	P/N or Spec.	Supplier	Quantity
1	Power Lever	(Refer to IPC)	Cirrus	AR
2	SR20 AMM 12137-001 Temporary Revision	62436-001	Cirrus	1
3	SR20 AMM 12137-002 Temporary Revision	62438-001	Cirrus	1
4	SR22/SR22T AMM 13773-001 Temporary Revision	62437-001	Cirrus	1
5	SR22/SR22T AMM 13773-002 Temporary Revision	62439-001	Cirrus	1

11. ACCOMPLISHMENT INSTRUCTIONS

A. Acquire necessary tools, equipment, and supplies.

Description	P/N or Spec.	Supplier	Purpose
10X Magnifier (minimum)	-	Any Source	Inspect upper power lever.
Dye Penetrant	-	Any Source	Detect cracks.

B. Remove key from ignition.

C. Set BAT 1, BAT 2, and AVIONICS switches to OFF positions.

D. Remove LH and RH aft console trim. (Refer to AMM 25-10)

E. Remove upper power lever. (Refer to AMM 76-10)

Note: Two-step evaluation is required as too much light can create a strong reflection off the aluminum surface which may obscure fine cracks.

F. Use magnifier to visually inspect upper power lever for damage. (See Figure 01)

Note: Minor scratching/scuffing is acceptable.

(1) If cracks are detected, no further inspection is required. Return damaged component to Cirrus for analysis. Install new upper power lever (item 1). (Refer to AMM 76-10)

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(2) If no cracks are detected, proceed to next step.

CAUTION: Do not etch surface prior to inspection.

G. Perform fluorescent dye penetrant inspection per ASTM E1417, Type I, Method A, Sensitivity Level 3.

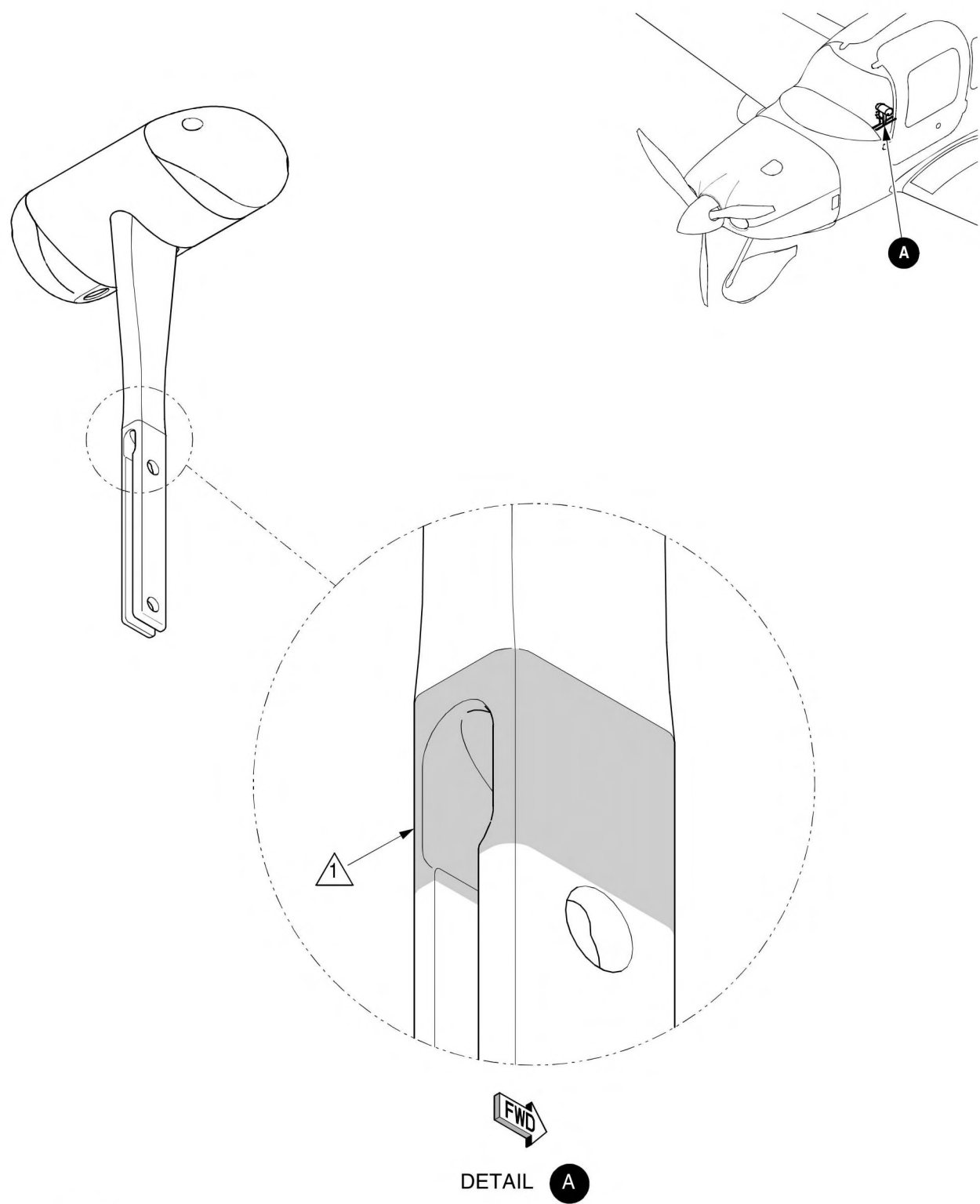
H. Allow dye penetrant to dwell for 10 minutes minimum.

CAUTION: Do not spray cleaner onto part directly.

I. When cleaning excess dye penetrant, spray cleaner onto clean rag then wipe part.

- J. Allow developer to dwell for 10 minutes minimum. (See Figure 02)
- (1) If cracks are detected, return damaged component to Cirrus for analysis. Install new upper power lever (item 1). (Refer to AMM 76-10)
- (2) If no cracks are detected, install existing upper power lever. (Refer to AMM 76-10)
- K. Visually inspect engine side stops (bolts) of throttle cable assembly for bending. If bent, remove and replace according to engine manufacturer's maintenance manual.
- L. *SR20 Serials 2220, 2339 thru 9749, SR22 Serials 4435 thru 9749:*
Perform Adjustment/Test - Governor Rigging. (Refer to AMM 61-20)
- M. *SR20 Serials 2016 thru 2219, 2221 thru 2338, except 2220, SR22 Serials 2979, 2992, 3002, 3026 thru 4434, and SR22T Serials 0001 & subs:*
Perform Adjustment/Test - Throttle Control Cable. (Refer to AMM 76-10)
- N. Install LH and RH aft console trim. (Refer to AMM 25-10)
- O. Insert AMM temporary revision, Power Lever Inspection and Replacement (item 2), (item 3), (item 4), or (item 5).
- P. Complete airplane records by noting compliance with SB2X-76-05 in Aircraft Logbook.

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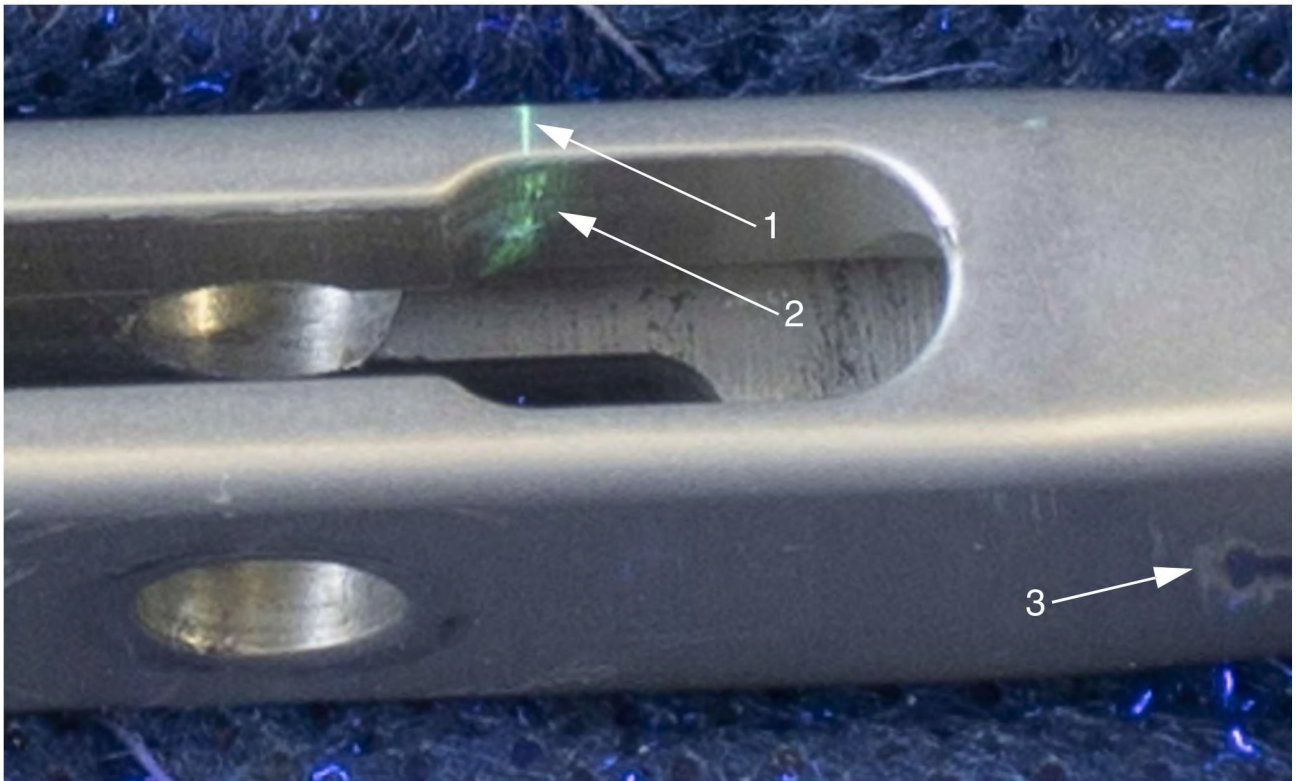


NOTE
1 Inspect shaded area for damage. Minor scratching/scuffing is acceptable.

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Figure 01
Upper Power Lever Inspection Area

EFFECTIVITY:
See Effectivity Section, Page 1

**NOTES:**

1. Positive identification of surface crack.
2. Positive identification of interior crack.
3. Sample of minor scuffing, not applicable.

Figure 02
Dye Penetrant Inspection Example