

Airworthiness Directive Schedule

Engines

Safran Helicopter Engines – Arrius 1A Series

27 January 2022

- Notes:**
1. This AD schedule is applicable to Safran Helicopter Engines (formerly Turbomeca) Arrius 1A series engines manufactured under the following Type Certificate Number:

Engine Model:	EASA Type Certificate Number:
Arrius 1A	E.080
Arrius 1A1	E.080

2. The European Aviation Safety Agency (EASA) is the National Airworthiness Authority (NAA) responsible for the issue of State of Design Airworthiness Directives (ADs) for Safran Helicopter Engines. State of Design ADs applicable to these engines can be obtained directly from the EASA website at <http://ad.easa.europa.eu/>
3. The date above indicates the amendment date of this schedule.
4. New or amended ADs are shown with an asterisk *

Contents

DCA/TUR/55	Balancing Piston – Life Limit Reduction	2
DCA/TUR/57	Fuel Injection System – Modification.....	2
DCA/TUR/58	Fuel Injectors – Replacement	2
DCA/TUR/59	Turbine Overspeed Protection System – Inspection	2
The State of Design ADs listed below are available directly from the National Airworthiness Authority (NAA) websites. Links to NAA websites are available on the CAA website at https://www.aviation.govt.nz/aircraft/airworthiness/airworthiness-directives/links-to-state-of-design-airworthiness-directives/ If additional NZ ADs need to be issued when an unsafe condition is found to exist in an aircraft or aeronautical product in NZ, they will be added to the list below.		
2019-0266-E	Module 02 / Gas Generator – Service Life	3
* 2022-0005	Airworthiness Limitations – Amendment	3

DCA/TUR/55 Balancing Piston – Life Limit Reduction

- Applicability:** Arrius 1A turboshaft engines, all S/N.
These engines are known to be installed on, but not limited to Eurocopter AS355N aircraft.
- Requirement:** To prevent failure of the balancing piston possibly resulting in an inflight engine shutdown, accomplish the following:
Change the balancing piston life cycle limit value in the engine logbook and update the maintenance programme per the instructions in Turboméca Mandatory Service Bulletin N° 319 72 0811 original issue or later approved revisions.
(EASA AD 2008-0133 refers)
- Compliance:** By 31 December 2008, unless previously accomplished.
- Effective Date:** 31 July 2008

DCA/TUR/57 Fuel Injection System – Modification

- Applicability:** Arrius 1A and 1E turboshaft engines, all S/N not embodied with Modification TU 63.
- Requirement:** To prevent an uncommanded inflight engine shutdown with a sudden selection of decreased collective pitch accomplish the following:
Embody modification TU 63 in accordance with Turbomeca SB No. 319 73 0016 revision 1 dated 22 December 1997.
(DGAC AD 1998-200 refers)
- Compliance:** By 30 December 2008 unless previously accomplished.
- Effective Date:** 30 October 2008

DCA/TUR/58 Fuel Injectors – Replacement

- Applicability:** Arrius 1A and 1E turboshaft engines, all S/N.
- Requirement:** To prevent an uncommanded inflight engine shutdown with a sudden selection of decreased collective pitch, replace main fuel injectors per the instructions in turbomeca SB No. A319 73 0071 original issue or later approved revisions.
(DGAC AD 2000-532 refers)
- Compliance:** At 1250 hours TTIS or within next 100 hours TIS, whichever is the later and thereafter at intervals not to exceed 1250 hours TIS.
- Effective Date:** 30 October 2008

DCA/TUR/59 Turbine Overspeed Protection System – Inspection

- Applicability:** Arrius 1A and 1E turboshaft engines, all S/N.
- Requirement:** To prevent uncontained failure as a result of malfunction of the free power turbine overspeed protection system, accomplish the instructions in Turbomeca ASB No A319 77 0804 original issue or later approved revisions.
(DGAC AD 2005-063R1 refers)
- Compliance:** Within the next 50 hours TIS or by 30 November 2008 whichever occurs sooner unless previously accomplished, and thereafter at the intervals when task card 77-30-01 is accomplished per chapter 05-10-02 in the applicable Turbomeca Arrius 1 maintenance manual.
- Effective Date:** 30 October 2008

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If additional NZ ADs need to be issued when an unsafe condition is found to exist in an aircraft or aeronautical product in NZ, they will be added to the list below.

2019-0266-E Module 02 / Gas Generator – Service Life

Applicability: Arrius 1A and 1A1 engines, all S/N.

Note: These engines are known to be installed on, but not limited to, Airbus Helicopters (formerly Eurocopter, Eurocopter France, Aérospatiale) AS355 N and AS355 NP twin-engine helicopters.

Effective Date: 29 October 2019

*** 2022-0005 Airworthiness Limitations – Amendment**

Applicability: Arrius 1A1 engines, all S/N.

Effective Date: 27 January 2022