



**EC145** (BK117C2) Pre-Owned

AIRBUS HELICOPTERS

**AIRBUS**

## GENERAL INFORMATION

### AIRBUS

Make:	Airbus
Model:	BK117C2
Serial Number:	9514
Price	\$2,600,000
Available:	May 2024
Build Year:	2012
Registration:	N543AE
Configuration:	Utility
Certified Operations	Single Pilot IFR and NVG Compatible
Location:	Grand Prairie, Texas
TTSN	~2,650 Hrs.
Engine Model:	Safran Arriel 1E2 X 2
Dedicated Mission:	Trainer/Demonstrator



## BASELINE AIRCRAFT

### General

Energy absorbing fuselage

- Tail boom with fixed horizontal stabilizer and two endplates
- Upper deck with fittings for main gearbox, engines, hydraulic and cooling system
- Cowlings for main transmission and engines
- Skid-type landing gear with skid protectors, capable of taking ground-handling wheels
- Long boarding steps, LH and RH
- Cold weather kit
- Built-in maintenance steps and grips
- Exterior painting (single color)

### Cockpit, Cabin and Cargo Compartment

One-level cabin and cargo compartment floor with integrated rails

- Glazed canopy
- Two hinged cockpit doors with sliding window
- Map case in pilot's door
- Two wide passenger sliding doors
- Two rear hinged clamshell doors
- Longitudinally adjustable energy absorbing pilot and copilot seats with headrest and 4-point safety belts with automatic locking system; seat color grey or blue
- Cabin boarding grips (LH and RH)
- Interior paneling with integrated basic sound insulation
- Flight controls (pilot side)
- Engine twist grip controls at pilot's collective pitch lever
- Instrument panel with extension on pilot's side and glare shield
- Ram-air for cockpit
- Electrical ventilating system for cockpit
- Headset holder in the cockpit, rotatable
- Portable fire extinguisher
- Stowage net for first aid kit at the LH rear clam-shell door
- First aid kit
- 2 Flash lights (torches)
- 4 mobile tie-down rings
- Slant panel
- Center console
- Windscreen wiper for pilot and copilot
- Door open warning

## BASIC INSTRUMENTATION

### CENTRAL PANEL

- Central Panel Display System (CPDS) consisting of two LCD displays
- Cautions and Advisories Display (CAD) with digital indication of:
  - Caution and advisory information
  - Fuel quantity indication
  - Vehicle and Engine Multifunction Display (VEMD) with digital indication of:
    - Engine parameters (engine oil pressure, engine oil temperature)
    - FLI (First Limit Indicator) for TQ, TOT, rN1 as analogue display
    - Main gear box parameters (oil pressure, oil temperature)
    - Dual amperemeter for generator; ampere meter for battery
    - Dual voltmeter
    - Outside Air Temperature (OAT)
    - Mast moment indicator
    - Back-up conventional instruments (2")
    - Clock
    - Stand-by-horizon
    - Triple (rotor and engines) RPM-indicator

- Warning unit
- Engine fire warning with fuel emergency shut-off
- Warning lights
- Aural warning (for each warning, rotor RPM, fire warning)
- Fire extinguishing system warning
- Master caution light
- Main switch panel
- DC power control
- VARTOMS control
- Start switches
- Magnetic compass

### AIR DATA

- Dual pitot static system (electrically heated pitot tube and static port)
- 2 ADC MEGHAS sensors

### STANDARD INSTRUMENTS (SINGLE PILOT)

- Air speed indicator (3")
- Vertical speed indicator (3")
- Encoding altimeter (3")
- Artificial horizon (4")
- Gyro magnetic heading with horizontal situation ind. (3")

# AVIONICS / Misc. Equipment

Avionics	Reference	Installation
#1 Garmin GTN 650	SR11190DS	FAA Form 337
#2 Garmin GTN 650	SR11190DS	FAA Form 337
GTX345R	SR11194DS	FAA Form 337
NVIS/NVG cockpit compatible lighting	STC SR09304RC-D	Production Install
Wulfsberg P-2000	STC SR00036MC-D	Production Install
P-2000 Transceiver/control head	STC SR00036MC-D	Production Install

Misc. Equipment	Reference	Installation
Sun Shade	B251M4010052	Production Install
Cable cutter detachable parts	B854M1003051	Production Install
1 to 8 Pax Seat	FLM 9.2-24	Type Cert Install
Lead Acid 44 AH Battery	STC SR09298RC-D	Production Install
Whelen LED Position lights (Fwd)	STC SR09298RC-D	Production Install
Whelen LED Position lights (Tail)	STC SR09302RC-D	Production Install
Whelen LED Anti-collision light	STC SR09303RC-D	Production Install
Crew Door Vent	STC SR09307RC-D	Production Install
Hoist Fixed Provisions	B8512-001-11	Production Install
Air Conditioning	STC SR00601DE	Production Install
Full Length Skid Shoes, Brauer	STC SR03936AT	FAA Form 337



# MAJOR COMPONENTS STATUS

**OH = Overhaul SLL = Service Life Limit INSP = Inspection HRS = Hours CYC = Cycle LDG = Landings M = Month**

Component	OH/SLL	Part #	Frequency	Time remaining
Main Rotor Blade 1	SLL	B621M1002104	25,000 hrs	22,407 hrs (89%)
Main Rotor Blade 2	SLL	B621M1002104	25,000 hrs	22,407 hrs (89%)
Main Rotor Blade 3	SLL	B621M1002104	25,000 hrs	22,407 hrs (89%)
Main Rotor Blade 4	SLL	B621M1002104	25,000 hrs	21,755 hrs (87%)
Main Transmission	OH	B632K1001051	5,000 hrs	2,350 hrs (47%)
MGB Case Assembly	SLL	B632K1020101	10,000 hrs	7,350 hrs (73%)
Main Rotor Shaft	SLL	4639205027	30,000 hrs	27,350 hrs (91%)
MR Head Assembly	INSP	B622M1002101	4,800 hrs	3,988 hrs (83%)
Tension Torsion Straps	SLL	B622M10t1001	12 yrs	Due March 2030
Inner Sleeve Assemblies	SLL	B622M1009101	13,300 hrs	6,646 hrs (49%)
Quad Nuts Upper/ Lower	SLL	B622M1004201 B622M1005201	60,000 ldg	41,191 ldg (69%)



- **Times Remaining are Based on a Projected Airframe Total Time of 2,650 Hours and Availability April 30, 2024. Represented are only the major component.; Times and cycles will vary at the actual time of purchase and the Buyer shall be responsible for validating all OH and SLL limited items life remaining.**

*As the pre-owned helicopter described here may currently still be in use/operation, the details specified here are only to be understood as a guideline for the respective helicopter's condition and the here mentioned condition and component life times may be subject to changes depending upon such use/operation..*

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**OH = Overhaul SLL = Service Life Limit INSP = Inspection HRS = Hours CYC = Cycle LDG = Landings M = Month**

Component	OH/SLL	Part #	Frequency	Time remaining
Rotor Star	SLL	B622M1001201	26,800 hrs	20,146 hrs (75%)
Main Servo / Longitudinal	OH	B673M30A1101	7,500 hrs	4,850 hrs (64%)
Main Servo / Lateral	OH	B673M30A1301	7,500 hrs	4,850 hrs (64%)
Main Servo Collective	OH	B673M30A1203	7,500 hrs	4,850 hrs (64%)
Intermediate Gearbox	OH	4639002009	**1,500 hrs	**334 hrs (22%)
Tail Rotor Gearbox	OH	4639003011	**1,800 hrs	**680 hrs (37%)
Tail Rotor Blade	SLL	B641M1001101	9,300 hrs	6,654 hrs (71%)
Tail Rotor Blade	SLL	B641M1001101	9,300 hrs	6,654 hrs (71%)
T/R Laminated Pile Assy	SLL	B642M1005101	14,000 ldg	2,480 ldg (17%)



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\*\* Tail Rotor and Intermediate Gearboxes may be extended to 2100 hour overhaul intervals adding an additional 600 hours to the IGB and 300 hours to the TRGB.

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# ENGINE STATUS

**ENGINE #1    ARRIEL 1E2    S/N 48321TEC**

TOTAL TIME: 2,650 HRS

NG CYCLE: 3,545

NP CYCLE: 3,119

Date: March 19, 2024

Modules	TBO	Time Remaining	Calendar Insp Due	Description	Cycle/HRS Limit	Cycle/HRS Remaining
Accessory Gearbox, MO1	15 yrs	N/A	Jan 2027	Free Turbine Disc	10,000 cyc	6,881 cyc (68%)
Axial Compressor, MO2	*7,200	4,550 hrs (63%)	N/A	Free Turbine Blades	12,000 cyc/7,200 hrs	8,881 cyc/4,550 hrs (63%)
Gas Generator, MO3	3,600	950 hrs (26%)	N/A	1st Stage Turb Disc	10,000 cyc	6,455 cyc (64%)
Power Turbine, MO4	*7,200	4,550 hrs (63%)	N/A	1st Stage Turb Blades	12,000 cyc/6,000 hrs	8,426 cyc/3,350 hrs (55%)
Reduction Gearbox, MO5	3,600	950 hrs (26%)	N/A	2nd Stage Turb Disc	10,000 cyc	6,455 cyc (64%)
Fuel Control Unit (FCU)	3,000 10 Year	2,877 hrs (95%)	Nov. 2032	2nd Stage Turb Blades	10,000 cyc/6,000 hrs	6,455 cyc/3,350 hrs (65%)
*3600 Hour Interim Inspections Apply to MO2 and MO4				Axial Comp Wheel	14,000 cyc	10,456 cyc (74%)
				Centrifugal Impeller	14,000 cyc	10,456 cyc (74%)
				Injector Wheel	10,000 cyc	6,456 cyc (64%)

- (1) **\*Times Remaining are Based on a Projected Airframe Total Time of 2,650 Hours and Availability April 30, 2024. Represented are only the major component.; Times and cycles will vary at the actual time of purchase and the Buyer shall be responsible for validating all OH and SLL limited items life remaining.**
- (2) **Where dual hour and cycle limits apply, the percentage remaining shown is the lowest of the two SLL.**

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# ENGINE STATUS

**ENGINE #2    ARRIEL 1E2    S/N 48323TEC**

TOTAL TIME: 2,650 HRS

NG CYCLE: 3,574

NP CYCLE: 2,832

Date: March 19, 2024

Modules	TBO	Time Remaining	Calendar Insp Due	Description	Cycle/HRS Limit	Cycle/HRS Remaining
Accessory Gearbox, MO1	15 yrs	N/A	Jan. 2027	Free Turbine Disc	10,000 cyc	7,168 cyc (71%)
Axial Compressor, MO2	*7,200	4,550 hrs (63%)	N/A	Free Turbine Blades-	12,000 cyc/7,200 hrs	9,168 cyc/4,550 hrs (63%)
Gas Generator, MO3	3,600	950 hrs (26%)	N/A	1st Stage Turb Disc	10,000 cyc	6,426 cyc (64%)
Power Turbine, MO4	*7,200	4,550 hrs (63%)	N/A	1st Stage Turb Blades	12,000 cyc/6,000 hrs	8,455 cyc/3,350 hrs (55%)
Reduction Gearbox, MO5	3,600	950 hrs (26%)	N/A	2nd Stage Turb Disc	10,000 cyc	6,426 cyc (64%)
Fuel Control Unit (FCU)	3,600 10 Year	1,949 hrs (54%)	Jan. 2031	2nd Stage Turb Blades	10,000 cyc/6,000 hrs	6,426 cyc/3,350 hrs (55%)
				Axial Comp Wheel	14,000 cyc	10,427 cyc (74%)
				Centrifugal Impeller	14,000 cyc	10,427 cyc (74%)
*3600 Hour Interim Inspections Apply to MO2 and MO4				Injector Wheel	10,000 cyc	6,426 cyc (64%)

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- (2) **Where dual hour and cycle limits apply, the percentage remaining shown is the lowest of the two SLL.**

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# HELICOPTERS





Contact us for more information  
[Jeff.donahue@airbus.com](mailto:Jeff.donahue@airbus.com) +1-972-  
641-3735

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