

# C&L Aerospace | Aircraft Specifications

## A/C Model: ERJ 140 LR

<b>A/C Serial Number:</b>	<b>145554</b>	<b>Avionics:</b>	<b>Honeywell</b>
<b>Date of Build:</b>	<b>2002</b>	<b>Country of Registration:</b>	<b>USA</b>
<b>A/C Total Time:</b>	<b>38,214.4 Hours</b>	<b>Configuration:</b>	<b>Semi-private</b>
<b>A/C Total Cycles:</b>	<b>35,735 Cycles</b>	<b>Registration Number:</b>	<b>N817AE</b>
<small>*Information as of December 9, 2022*</small>		<b>Aircraft Location:</b>	<b>USA</b>

Below photos indicative of cabin modification



## Galley Area



## ENGINES

<b>ROLLS ROYCE AE3007A1/3</b>	
<b>L/H Engine</b>	<b>CAE311644</b>
Total Time	39,876.9
Total Cycles	35,414
TSLSV	1,165.7
First Limiter (Cycles)	4,852

<b>ROLLS ROYCE AE3007A1/3</b>	
<b>R/H Engine</b>	<b>CAE312532</b>
Total Time	33,576.9
Total Cycles	30,157
TSLSV	4,225.6
First Limiter (Cycles)	4,843

<b>AUXILIARY POWER UNIT</b>	
APU Type / Model	Sundstrand T-62T-40C14
APU TSN	26,487.5
APU CSN	38,600

## LANDING GEAR

<b>POSITION</b>	<b>CSO</b>	<b>REMAINING</b>	<b>NEXT DUE</b>
NLG	0	20,000	TBD
LH MLG	0	20,000	TBD
RH MLG	0	20,000	TBD

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### Inspection Status

	Interval	Time Remaining
C	5,000 hours	5,000
3A	1,500 hours	1,052.9
5A	2,500 hours	1,744.9
4C	20,000 hours	15,295.5

### Configuration

Passenger Seats	18
Number & Location of Galley	1 Fwd
Number and Location of Lavatory	1 Aft
Number of Crew Seats	3 Cockpit, 1 Cabin
Aircraft Paint Scheme	American Eagle
FAR 121 Compliant	Yes
TCAS	Yes
TAWS	-
ETOPS	-
FAR Part 36, Stage III Noise Compliant	-

### Operating Weight

Maximum Take-Off Weight	46,517 lbs
Maximum Landing Weight	41,226 lbs
Maximum Zero Fuel Weight	37,699 lbs
Basic Op. Empty Weight	26,032 lbs
Fuel Capacity	11,332 lbs

### Avionics

Nomenclature	Manufacturer	Model	Qty
VHF Comm	Honeywell	RCZ-833M	2
VHF Nav	Honeywell	RNZ-851	2
FMS Computer	Universal	UNS-1Lw	2
GPS Computer	-	-	1
Air Data Computer	Honeywell	7014700-626	2
Data Acquisition Unit	Bombardier	UL600	1
Weather Radar	Honeywell	WU-660	1
Radio Altimeter	Honeywell	RT-300	1
CVR	Allied Signal	980-6022-001	1
DFDR	Allied Signal	980-4700-042	1
EGPWS	Honeywell	MK V	1
TCAS II	ACSS	RT-951	1

### AE3007A1/3 ENGINE DETAILS

Serial Number	CAE311644
Hours Since Inspection	1165.6
Time Since New	39,876.9 Hours

Description	Cycle Limit	Remaining Cycles
Fan Wheel	20,000	18,853
Fan Blade Retainer	20,000	18,853
Shaft, Fan Drive	35,000	33,853

1 <sup>st</sup> Stage Wheel, Comp Rotor	30,000	28,853
2 <sup>nd</sup> Stage Wheel, Comp Rotor	30,000	10,653
3 <sup>rd</sup> Stage Wheel, Comp Rotor	24,200	4,853
4 <sup>th</sup> Stage Wheel, Comp Rotor	30,000	10,653
5 <sup>th</sup> Stage Wheel, Comp Rotor	30,000	10,653
6 <sup>th</sup> Stage Wheel, Comp Rotor	30,000	10,653
7 <sup>th</sup> Stage Wheel, Comp Rotor	30,000	10,653
8 <sup>th</sup> Stage Wheel, Comp Rotor	30,000	10,653
9 <sup>th</sup> Stage Wheel, Comp Rotor	30,000	10,653
10 <sup>th</sup> Stage Wheel, Comp Rotor	30,000	28,853
11 <sup>th</sup> Stage Wheel, Comp Rotor	30,000	10,653
12 <sup>th</sup> Stage Wheel, Comp Rotor	30,000	28,853
13 <sup>th</sup> Stage Wheel, Comp Rotor	30,000	28,853
14 <sup>th</sup> Stage Wheel, Comp Rotor	30,000	10,653
Cone Shaft	30,000	23,125

Turbine, 1 <sup>st</sup> Stage HP	35,000	33,853
Turbine, 2 <sup>nd</sup> Stage HP	23,000	21,853
Spacer, 1 <sup>st</sup> and 2 <sup>nd</sup> Stage	30,000	28,853

1 <sup>st</sup> Stage LP, Turbine Wheel	35,000	33,853
2 <sup>nd</sup> Stage LP, Turbine Wheel	35,000	33,853
3 <sup>rd</sup> Stage LP, Turbine Wheel	35,000	33,853
Spacer, Interstage LP Fwd	35,000	33,853
Spacer, Interstage LP Aft	35,000	33,853
LPT Fwd Shaft	35,000	33,853

### AE3007A1/3 ENGINE DETAILS

Serial Number	CAE312532
Hours Since Inspection	4,225.6
Time Since New	33,576.9 Hours

Description	Cycle Limit	Remaining Cycles
Fan Wheel	20,000	8,808
Fan Blade Retainer	20,000	2,823
Shaft, Fan Drive	35,000	4,843

1 <sup>st</sup> Stage Wheel, Comp Rotor	30,000	18,808
2 <sup>nd</sup> Stage Wheel, Comp Rotor	30,000	18,808
3 <sup>rd</sup> Stage Wheel, Comp Rotor	30,000	18,808
4 <sup>th</sup> Stage Wheel, Comp Rotor	30,000	18,808
5 <sup>th</sup> Stage Wheel, Comp Rotor	30,000	18,808
6 <sup>th</sup> Stage Wheel, Comp Rotor	30,000	18,808
7 <sup>th</sup> Stage Wheel, Comp Rotor	30,000	18,808
8 <sup>th</sup> Stage Wheel, Comp Rotor	30,000	18,808
9 <sup>th</sup> Stage Wheel, Comp Rotor	30,000	18,808
10 <sup>th</sup> Stage Wheel, Comp Rotor	30,000	18,808
11 <sup>th</sup> Stage Wheel, Comp Rotor	30,000	18,808
12 <sup>th</sup> Stage Wheel, Comp Rotor	30,000	18,808
13 <sup>th</sup> Stage Wheel, Comp Rotor	30,000	18,808
14 <sup>th</sup> Stage Wheel, Comp Rotor	30,000	18,808
Cone Shaft	30,000	18,808

Turbine, 1 <sup>st</sup> Stage HP	35,000	4,843
Turbine, 2 <sup>nd</sup> Stage HP	23,000	4,847
Spacer, 1 <sup>st</sup> and 2 <sup>nd</sup> Stage	30,000	25,957

1 <sup>st</sup> Stage LP, Turbine Wheel	35,000	4,843
2 <sup>nd</sup> Stage LP, Turbine Wheel	35,000	23,808
3 <sup>rd</sup> Stage LP, Turbine Wheel	35,000	4,843
Spacer, Interstage LP Fwd	35,000	4,843
Spacer, Interstage LP Aft	35,000	4,843
LPT Fwd Shaft	35,000	4,843

## Summary

This aircraft was previously in service with a domestic operator and has currently been inducted into heavy maintenance. The aircraft is undergoing Air Stair SB modification as well as Semi-Private Cabin configuration and will be delivered with Overhauled Landing Gear. In addition to the modifications, the following inspections will be accomplished:

- C-Check
- 2A, 2C, 4A, 5A,
- 12Mo, 18Mo, 24Mo, 30Mo, 36Mo, 48Mo
- 1,000FH / 2,000FH / 2,500FH / 4,000FH / 5,000FH / 6,000FH
- 2,500FC / 5,000FC / 6,000FC

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