

# Specifications & Summary of Terms

## Embraer ERJ140LR

### 1. Overview

Aircraft	:	EMB – ERJ140LR
Total Aircraft Time	:	33,297.75
Total Aircraft Cycles	:	30,126
Engine Configuration	:	AE3007A1/3

Maintenance Status	As on 30-Apr-2023		
Check Type	Intervals (FH)	Remaining (FH)	Next due
C Check	5,000	435	33,732.75 FH

Interior Configuration	
Description	Quantity
First Class Seats	N. A
Tourist Class Seats	44

### APU

APU Status as on 31-Jan-2024						
Description	Part No.	Serial No.	TSN	CSN	TSO	CSO
Auxiliary Power Unit	4504113B	SPE0414695	26,251	43,518	3,360.83	6,738
APU LLP Status						
Description	Part No.	Serial No.	Cycle Limit	CSN	Remaining	Limiter
Compressor Wheel	4504253	SIF4602	50,000	6,738	43,262	
Turbine Wheel	4504847	JL317	15,000	6,738	8,262	X

## Landing Gear

Landing Gear Status as on 05-May-2023			
	Nose	Left Main	Right Main
<b>Part Number</b>	1170S0000-01	2309-3002-615	2309-3002-520
<b>Serial Number</b>	00242	419	419
<b>Interval (Cycles/Days)</b>	20,000/12 Yrs.	20,000/12 Yrs.	20,000/12 Yrs.
<b>TSN</b>	33,990.3	32,076.46	32,076.46
<b>CSN</b>	30,113	29,987	29,987
<b>Date Overhauled</b>	23-Mar-2012	03-April-2012	03-April-2012
<b>TSO</b>	11,154.27	11,061.18	11,061.18
<b>CSO</b>	10,330	10,261	10,261
<b>Cycles to Next Overhaul</b>	9,670	9,739	9,739
<b>Next Due Date</b>	20-Mar-2024	31-Mar-2024	31-Mar-2024

## Engines CAE311770 & CAE312061

LH Engine	CAE311770	Since New		Since Major Repair/Overhaul		
Model	AE3007A1/3	TSN	CSN	TSLSV	CSLSV	
<b>As of date</b>	29-Jun-2023	34,167.10	30,491	4,778.90	4,509	
Engine Life Limited Components						
Description	Part No.	Serial No.	Cycle Limit	CSN	Remaining	Limiter
Fan Module						
Fan Wheel	23058865	MW60355	20,000	13,274	6,726	X
Fan Bld Fwd Retainer	23062491	HK122041	20,000	13,274	6,726	X
Fan Drive Shaft	23074382	GV277079	35,000	4,509	30,491	
Compressor Module						
Compressor Cone Shaft	23084170	L378845	30,000	4,509	25,491	
Comp. Rotor 1st Stage Wheel	23084156	L339313	30,000	13,274	16,726	
Comp. Rotor 2nd Stage Wheel	23084157	L330965	30,000	13,274	16,726	
Comp. Rotor 3rd Stage Wheel	23084158	L343476	24,200	13,274	10,926	
Comp. Rotor 4th Stage Wheel	23084159	L327966	30,000	13,274	16,726	
Comp. Rotor 5th Stage Wheel	23084160	L325640	30,000	13,274	16,726	
Comp. Rotor 6th Stage Wheel	23084161	L338194	30,000	13,274	16,726	
Comp. Rotor 7th Stage Wheel	23074719	L326505	30,000	13,274	16,726	
Comp. Rotor 8th Stage Wheel	23084163	L329976	30,000	13,274	16,726	
Comp. Rotor 9th Stage Wheel	23084164	L341101	30,000	13,274	16,726	
Comp. Rotor 10th Stage Wheel	23074723	L258894	20,000	13,274	6,726	X
Comp. Rotor 11th Stage Wheel	23084166	L328971	30,000	13,274	16,726	
Comp. Rotor 12th Stage Wheel	23084167	L341335	30,000	13,274	16,726	
Comp. Rotor 13th Stage Wheel	23084168	L342922	30,000	13,274	16,726	
Comp. Rotor 14th Stage Wheel	23084169	L342168	30,000	13,274	16,726	
HPT Module						
HPT - 1st Stage	23088906	MW78244	35,000	4,509	30,491	
Spacer- HPT 1st & 2nd Stages	23076778	TW511231	30,000	23,004	6,996	
HPT - 2nd Stage	23084520	MW61427	20,000	13,274	6,726	X
LPT Module						
Interstage LPT Spacer	23089136	LT230309	35,000	4,509	30,491	
Interstage LPT Spacer	23089136	LT230336	35,000	4,509	30,491	
Forward Shaft	23074538	GV277319	35,000	4,509	30,491	
LPT - 1st Stage Wheel	23073957	MW79175	35,000	4,509	30,491	
LPT - 2nd Stage Wheel	23088282	MW78820	35,000	4,509	30,491	
LPT - 3rd Stage Wheel	23079224	MW75780	35,000	4,509	30,491	

RH Engine	CAE312061	Since New		Since Major Repair/Overhaul		
Model	AE3007A1/3	TSN	CSN	TSLSV	CSLSV	
As of date	29-Nov-2023	31,355.93	27,699	6,184.60	5,631	
Engine Life Limited Components						
Description	Part No.	Serial No.	Cycle Limit	CSN	Remaining	Limiter
Fan Module						
Fan Wheel	23058865	MW63496	20,000	9,675	10,325	
Fan Bld Fwd Retainer	23062491	HK122241	20,000	9,675	10,325	
Fan Drive Shaft	23074382	GV245198	35,000	27,699	7,301	X
Compressor Module						
Compressor Cone Shaft	23084170	L336896	30,000	9,675	20,325	
Comp. Rotor 1st Stage Wheel	23084156	L349725	30,000	9,675	20,325	
Comp. Rotor 2nd Stage Wheel	23084157	L346349	19,600*	9,675	9,925	
Comp. Rotor 3rd Stage Wheel	23084158	L355038	24,200	9,675	14,525	
Comp. Rotor 4th Stage Wheel	23084159	L345154	30,000	9,675	20,325	
Comp. Rotor 5th Stage Wheel	23084160	L348930	30,000	9,675	20,325	
Comp. Rotor 6th Stage Wheel	23084161	L350874	30,000	9,675	20,325	
Comp. Rotor 7th Stage Wheel	23084162	L326906	30,000	9,675	20,325	
Comp. Rotor 8th Stage Wheel	23084163	L342598	30,000	9,675	20,325	
Comp. Rotor 9th Stage Wheel	23084164	L347452	30,000	9,675	20,325	
Comp. Rotor 10th Stage Wheel	23084165	L347955	30,000	9,675	20,325	
Comp. Rotor 11th Stage Wheel	23084166	L353974	30,000	9,675	20,325	
Comp. Rotor 12th Stage Wheel	23084167	L349294	30,000	9,675	20,325	
Comp. Rotor 13th Stage Wheel	23084168	L372817	30,000	5,631	24,369	
Comp. Rotor 14th Stage Wheel	23084169	L342347	30,000	9,675	20,325	
HPT Module						
HPT - 1st Stage	23069591	MM182977	35,000	27,699	7,301	X
Spacer- HPT 1st & 2nd Stages	23076778	TW515932	30,000	17,956	12,044	
HPT - 2nd Stage	23088818	MW63477	23,000	9,675	13,325	
LPT Module						
Interstage LPT Spacer	23054049	TW506565	35,000	27,699	7,301	X
Interstage LPT Spacer	23054049	TW506569	35,000	27,699	7,301	X
Forward Shaft	23074538	GV244551	35,000	27,699	7,301	X
LPT - 1st Stage Wheel	23073957	MW41956	35,000	27,699	7,301	X
LPT - 2nd Stage Wheel	23079220	MW62169	35,000	9,675	25,325	
LPT - 3rd Stage Wheel	23070046	WD244792	35,000	27,699	7,301	X

\*Refer to Chapter 5, Per SN Life Limit Reduced

## Avionics

Description	Part No.	Quantity
0510GW2	TEMPERATURE SIGNAL CONDITIONER	2
145-31625-613	MODULE ASSY AIR COND PNEU CONT	1
2014AB	MODULE, CABIN PRESSURE ACQUISTN	1
524864	INVERTER MODULE	4
812546-4	MODULE TEMPERATURE CONTROL	1
8166262	ENVIRONMENTAL CONTROL UNIT	2
C142398-4-006	CONTROLLER, DIGITAL TEMPERATURE	2
7003897-925	CONTROLLER, AUTOPILOT	1
7021170-951	CONTROLLER, AUTOFLT GUIDANCE	1
5482-1	AMPLIFIER, PASSENGER ADDRESS	1

Description	Part No.	Quantity
622-6152-011	TRANSCEIVER VHF COMM	1
7013270-985	RADIO MANAGEMENT UNIT	2
7510733-666	UNIT, INTEGRATED COMM. VHF (TRANSPONDERS)	2
7511001-939	AUDIO CONTROL PANELS	3
980-6022-001	RECORDER, COCKPIT VOICE (CVR)	1
DK120	DEVICE - UNDERWATER LOCATING	2
51545-002A	GENERATOR CONTROL UNIT	4
51525-014A	UNIT, GENERATOR CONTROL (APU)	1
PC-251-123F	INVERTER, STATIC	1
453-5000	ELT TRANSMITTER/BATTERY	3
145-34156-401	MODULE ASSY FIRE EXTG APU/BAGG	1
902081	MODULE, FIRE CONTROL	3
0020BN4	COMPUTER STALL WARNING	1
14533022409	SPOILER CONTROL UNIT	1
363100-1013	FLAP ELECTRONIC CONTROL UNIT	1
362100-1013	CONTROL UNIT HORIZONTAL STAB	1
367-934-002	UNIT, FUEL CONDITIONING SIGNAL	1
3801D2-C	WINDSHIELD TEMP PROTECTION	2
3001-01-111	ACCELEROMETER	1
7017000-82430	IC 600 INT COMPUTERW/AP	1
7017000-83430	IC 600 INT COMPUTER W/O AP	1
80-0694-2-5	AURAL WARNING UNIT	1
980-4700-042	FLIGHT DATA RECORDER	1
GMT4190-011	CLOCK, DIGITAL	2
355-022-003	UNIT LANDING GEAR ELECTRONIC	1
42-951-6	UNIT, BRAKE CONTROL	1
1065-11-010	ACARS UNIT	1
497126-2	ACARS PRINTER	1
10651	UNLINK CONFIG MODULE	1
1117-11	FMS CDU	2
11921	FMS CONFIGURATION MODULE	2
3116-49-1116	FMS #1	2
7001840-937	RADIO ALT UNIT	1
7013348-949	UNIT DATA ACQUISITION	2
7014300-901	DISPLAY UNIT	6
7014700-626	COMPUTER, AIR DATA (ADC)	2
7021450-601	TRANSCEIVER, RADAR (W/O TURB D	1
7510100-631	UNIT, NAV ADF DME, INTEGRATED	2
7517900-55012	COMPUTER, TCAS	1
965-0976-003-202-202	COMPUTER, EGPWS	1
C16786PA01	ISIS	1
ED35E100-00-02	AFDAU	1
HG2011AC03	ATT/HDG CONTROL UNIT	2
PGA1001WG	MAGNETIC COMPASS	1
251-116-013-010	CENTRAL MAINTENANCE COMPUTER	1
4504205F	FADEC	1
4505576	MODULE, DATA MEMORY	1
23093346	FADEC	4
241-244-013-002	MONITOR, ENGINE VIBRATION	1

## Inspection Status

Inspection Status as of 30-Apr-2023				
Maintenance Task	Interval	Last Accomplished		Next due
		AT FH	AT FC	
<b>A Check</b>				
1A Check	500 FH	32,974.23	29,781	33,474.23 FH
2A Check	1000 FH	32,974.23	29,781	33,974.23 FH
3A Check	1500 FH	32,498.88	29,319	33,998.88 FH
4A Check	2000 FH	33,123.02	29,940	35,123.02 FH
5A Check	2500 FH	31,206.18	28,080	33,706.18 FH
<b>C Check</b>				
C	5000 FH	28,732.75	25,807	33,732.75 FH
2C	10000 FH	28,732.75	25,807	38,732.75 FH
4C	20000 FH	19,175.57	17,112	39,175.57 FH

## Interior

Interiors				
<b>Passenger Accommodations</b>				
Total Pax Seats certified	44			
Current installed Seats	44			
<b>Flight Deck</b>				
Total Seating Capacity	2 Crew + 1 Observer			
<b>Cabin Attendant Seating</b>				
Quantity	1	1		
Location	Fwd	Fwd		
<b>Lavatory</b>				
Quantity	1	1		
Location	Aft	Aft		