



Asset Complete Specification

Manufacturer:	Boeing - Boeing Commercial Airplane Group
Model Designation:	B777-346
Serial Number:	27654
Registration:	N819KW



Current Status: **Available**

A/C Type: Boeing 777-346
MSN: 27654
DoM: OCT/2003

Registration: N819KW
Engine Designation: PW4090



Current Lessee:

Registration Current : N819KW
Operating Time as at : 01 Feb 2021
Date of Manufacturing : Oct/2003
Model Designation : 777-346
Flight Hours : : 36,093.88
Flight Cycle : : 23,529

Asset Specific Data

ATA	Asset Model Designation	Description	Comment
General Information			
	Line Number	458	
	Production (Variable) Number	WB596	
Certification Bases			
	Type Certificate Data Sheet	T00001SE AND E00050EN	
Configuration			
	Aircraft Configuration	C78 Y422	
2520	Cabin Attendant Seats	13	
2510	Cockpit Observer Seats	2	
2520	Passenger Seat Pitch	(TBA)	First Class " Economy "
2530	Galley Locations	Galleys F1, F2, F3, M1, A1, A2, A3	
	Galley Standart / ATLAS/KSSU		
2540	Lavatory	11	
2330	IFE System	Panasonic eX2	Seat back or in-arm mounted monitors dependent on seat Position
	WI-FI System/Type	Panasonic	Cell Modem
OPS Data			
	Autoland Capabilities	Cat III B	
	Reduced Vertical Separation Minimum	Compliant	

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A/C Type: Boeing 777-346

Registration:

N819KW

MSN: 27654

Engine Designation:

PW4090

DoM: OCT/2003



Asset Model Designation

B777-346

ATA

Description Comment

OPS Data

	Extended-range Twin-engine Operations Minutes	Yes 180-minutes
23	8.33 KHz Channel Spacing	Installed
23	90 Day ULB	Installed
3400	ILS / VOR FM Immunity	Compliant
34	Precision Area Navigation (P RNAV)	Compliant
34	Controller Pilot Data Link Communications (CPDLC)	Installed
34	Automatic Dependent Surveillance - Broadcast (ADS-B)	Installed
34	TCAS Change 7	Installed
34	TCAS Model	TCAS II
34	Automatic Dependent Surveillance - Contract (ADS-C)	To Be Reported
3400	Enhanced Ground Proximity Warning System	Yes

Additional Information

	Engine Thrust Rating	99,040 lbs
	Fuel Capacity	48,090 US Gallons

Asset Weights:	Current	
	(kg)	(lb)
Maximum Take Off Weight	236,956	522,400
Maximum Taxi Weight	237,863	524,400
Maximum Zero Fuel Weight	224,528	495,000
Maximum Landing Weight	237,686	524,000
Operational Empty Weight	154,896	341,488

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A/C Type: Boeing 777-346

Registration: N819KW

MSN: 27654

Engine Designation: PW4090

DoM: OCT/2003



Major Components

Description	Position	Type	Part No	Serial No	TSN	CSN	Date
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Airframe

Airframe for B777 AIRFRAME 27654 36,093.88 23,529 30/May/2022

Manufacturer: Boeing - Boeing Commercial Airplane Group

Engine General

Engine Left PW4090 P222205 27,281.36 17,741 30/May/2022

Status: On Aircraft

Manufacturer: PRATT & WHITNEY

Engine General

Engine Right PW4090 P222107 34,021.44 23,554 30/May/2022

Status: On Aircraft

Manufacturer: PRATT & WHITNEY

Main Landing Gear

Main Landing Gear Left 161W1000-23 MC0915P0440 37,083 24,762 30/May/2022

Status: On Aircraft

Manufacturer: Boeing - Boeing Commercial Airplane Group

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A/C Type: **Boeing 777-346**
MSN: **27654**
DoM: **OCT/2003**

Registration: **N819kw**
Engine Designation: **PW4090**



Major Components

Description	Position	Type	Part No	Serial No	TSN	CSN	Date
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Main Landing Gear

Main Landing Gear	Right		161W1100-24	MC0916P0440	37,083	24,762	30/May/2022
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Status: On Aircraft

Manufacturer: Boeing - Boeing Commercial Airplane Group

Nose Landing Gear

Nose Landing Gear	Nose		162W1100-9	MC0452P0440	37,083	24,762	30/May/2022
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Status: On Aircraft

Manufacturer: Boeing - Boeing Commercial Airplane Group

APU - Engine

(APU hrs/cyc)

APU		GTCP331-500B	3800550-1	P-1510	19,038	32,736	30/May/2022
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Status: On Aircraft

Manufacturer: Honeywell

Asset Complete Spec.

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A/C Type: Boeing 777-346
MSN: 27654
DoM: OCT/2003

Registration: N819KW
Engine Designation: PW4090



Maintenance Status History

• 02M08C09K	35,516.13/23,222	21/JUL/2020
• 07C08K	31,946.17/21,280	23/SEP/2018
• 06C07K	27,028.08/18,505	29/OCT/2016
• 05C06K	22,416.47/15,805	27/SEP/2014
• 05K	19,984.06/14,327	04/APR/2013
• 01A CHECK	35,951.85/23,456	22/DEC/2020

LANDING GEAR

	<u>NOSE GEAR</u>	<u>LEFT MAIN GEAR</u>	<u>RIGHT MAIN GEAR</u>
Part Number	162W1100-9	161W1100-23	161W1100-24
Serial Number	MC0452P0440	MC0915P0440	MC0916P0440
TSN	37,083	37,083	37,083
CSN	24,762	24,762	24,762
Date at Overhaul	30 May 2019	30 May 2019	30 May 2019
TSO	19,745	19,745	19,745
CSO	11,155	11,155	11,155
Remain Cycle to Next O/H	14,720 LCY (08/Jun/2029)	14,720 LCY (10/Jun/2029)	14,720 LCY (11/Jun/2029)

APU

Manufacture	Honeywell	Status As Of	30 May 2022	Date SV	16 Jun 2020
Type / Model	GTCP331-500B	TSN	19,038	TSLSV	17,642
Serial Number	P-1510	CSN	32,736	CSLSV	31,422
Program Basis	On Condition				

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A/C Type: Boeing 777-346
MSN: 27654
DoM: OCT/2003

Registration: N819KW
Engine Designation: PW4090



ENGINE POSITION #1

Serial Number	P222205	Installation Date	14 Jun 2005	Manufacture	Pratt & Whitney
TSN	27,281.36	TSLSV	4,617	Model	PW4090
CSN	17,741	CSLSV	2,526	Thrust Rating	99,040 lbs
Status As Of	20 MAY 2022	LLP Limiter	952 cyc / hub-turbine front	Engine Control	FADEC

LLP REFER TABLE BELOW (GROUP A)

The LLP Life remaining as listed in this report is valid and based on the latest loaded LLP Snapshot creation date and the limits as listed in the latest LLP Disk Sheet loaded in CMS. It does not take into account any LLP Life Limit change after the creation date following an Engine Event such as a Shop Visit, change in Thrust Rating or revision of a LLP Limit in the Time Limits Manual introduced after the creation of the last LLP Disk Sheet provided. The estimated Flight Cycles remaining assumes that correct utilization is reported and populated and no Engine Event such as a Shop Visit, a change in Thrust Rating or a LLP Limit change has occurred between the date of the latest LLP Disk Sheet and the date of the last valid utilization loaded in the CMS.

Note : #-TSO/CSO only applicable to Module and Non-Life Limited Parts. *** - Life Calculation on Revised Life Limit ** - Life Calculation on Soft Life Limit * - Life Calculation on Hard Life Limit

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Japan Airlines Co.,Ltd
LIFE LIMITED PART CONTROL REPORT

ENGINE Model ENGINE S/No. TSN CSN TSLV CSLV
PW4090 P222205 27282 17741 5195 2833

IIN	Nomenclature	P/N(Actual)	Serial No.	TSN	CSN	CYCLE USED		CYCLE USED		CYCLE USED		Method 2 with K			
						LIMIT	CYCLE	LIMIT	CYCLE	LIMIT	CYCLE	DISK LIFE	DISK LIFE	DISK LIFE	DISK LIFE
						PW4074	PW4074	PW4077	PW4077	PW4090	PW4090	PRORATED	PW4074	PW4077	PW4090
A0032	HUB-LPC	52B401	CBDUCN0077	18944	11009	20000	0	20000	0	15000	9842	65.61%	6877	6877	5158
A0033	DISK ASSY-LPC DRUM RTR	52B121-01	CBDUCM8536	18944	11009	40000	0	40000	0	15000	9842	65.61%	13754	13754	5158
B0181	DISK-HPC 5TH	55H805	YENCAH1442	18376	10734		0		0	15000	9775	65.17%			5225
B0183	HUB-HPC FRONT	51H572	CENCD16147	10005	5527	20000	0	20000	0	15000	4893	32.62%	13476	13476	10107
B0184	DISK ASSY-DRUM RTR FR	55H206-01	CENCD08737	10005	5527		0		0	13100	4616	35.24%			8484
B0193	DISK ASSY-DRUM RTR RR	57H210-01	CENCDF0636	18944	11009		0		0	13000	11009	84.68%			1991
B0196	DISK-HPC 15TH	56H015	CENCD16482	10005	5527		0		0	8000	5527	69.09%			2473
B0197	SHAFT-HPC REAR	55H200	CENCD22875	10005	5527		0		0	15000	4893	32.62%			10107
B0201	SEAL-AIR DIFFUSER	56H192	CENCD23638	10005	5527		0		0	15000	5527	36.85%			9473
B0241	SEAL-AIR DIFFUSER	55H869	CENCDG5579	10005	5527		0		0	15000	5527	36.85%			9473
C0402	HUB-TURBINE FRONT	55L901	CKLBJE9253	22818	13923		0		0	13200	12247	92.78%			952
C0403	SEAL-AIR HPT 1ST	50L959	CKLBKD8257	10005	5527		0		0	15000	5527	36.85%			9473
C0408	SEAL-AIR HPT 2ND	54L064	CKLBLN5401	10005	5527	15000	0	15000	0	15000	5527	36.85%	9473	9473	9473
C0420	HUB-HPT 2ND STG	53L402	CKLBLW1715	11683	6368		0		0	15000	6368	42.45%			8632
C0423	PLATE-RING HPT 2ND BLD	50L242	CKLBLS5678	11683	6368	16200	0	14780	0	9100	6368	69.98%	4863	4437	2732

Yo Fukushima

Director
Maintenance Management Department
Japan Airlines Co.,Ltd.

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Japan Airlines Co.,Ltd
LIFE LIMITED PART CONTROL REPORT

ENGINE Model	ENGINE S/No.	TSN	CSN	TSLV	GSLV
PW4090	P222205	27282	17741	5195	2833

IIN	Nomenclature	P/N(Actual)	Serial No.	TSN	CSN	CYCLE USED		CYCLE USED		CYCLE USED		Method 2 with K			
						LIMIT	CYCLE	LIMIT	CYCLE	LIMIT	CYCLE	DISK LIFE	DISK LIFE	DISK LIFE	DISK LIFE
						PW4074	PW4074	PW4077	PW4077	PW4090	PW4090	PRORATED	PW4074	PW4077	PW4090
D0472	SEAL-AIR LPT 3RD	53M013	CLDLDR1617	10005	5527		0		0	15000	5527	36.85%			9473
D0474	DISK-LPT 3RD	53M683	CLDLDG9212	10005	5527		0		0	15000	4893	32.62%			10107
D0479	SEAL-AIR LPT 4TH	53M014	CLDLDR1659	10005	5527		0		0	15000	5527	36.85%			9473
D0480	DISK-LPT 4TH	53M004	CLDLBF4493	10005	5527		0		0	15000	4893	32.62%			10107
D0488	SEAL-AIR LPT 5TH	53M015	CLDLDD4728	10005	5527		0		0	15000	5527	36.85%			9473
D0489	DISK-LPT 5TH	53M005	CLDLBF5265	44379	10417		0		0	15000	9783	65.22%			5217
D0491	SEAL-AIR LPT 6TH	53M016	CLDLBG3097	10005	5527		0		0	15000	5527	36.85%			9473
D0494	DISK-LPT 6TH	53M006	CLDLBF6499	10005	5527		0		0	15000	4893	32.62%			10107
D0500	DISK-LPT 7TH	53M347	CLDLBF7356	22530	9995		0		0	15000	9242	61.61%			5758
D0502	SEAL-AIR LPT 7TH	53M017	CLDLBG3454	22129	12730		0		0	15000	12730	84.87%			2270
D0505	SEAL-AIR LPT 8TH	53M018	CLDLDM8538	10005	5527		0		0	15000	5527	36.85%			9473
D0506	DISK-LPT 8TH	53M008	CLDLBF8510	10005	5527		0		0	15000	4893	32.62%			10107
D0511	SEAL-AIR LPT 9TH	53M019	CLDLDM8568	10005	5527		0		0	15000	5527	36.85%			9473
D0512	DISK-LPT 9TH	53M009	CLDLBF9486	10005	5527		0		0	15000	4893	32.62%			10107

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Maintenance Management Department
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Japan Airlines Co.,Ltd
LIFE LIMITED PART CONTROL REPORT

ENGINE Model	ENGINE S/No.	TSN	CSN	TSLV	CSLV
PW4090	P222205	27282	17741	5195	2833

IIN	Nomenclature	P/N(Actual)	Serial No.	TSN	CSN	PW4074		PW4077		PW4090		Method 2 with K			
						CYCLE LIMIT	USED CYCLE	CYCLE LIMIT	USED CYCLE	CYCLE LIMIT	USED CYCLE	DISK LIFE PRORATED	DISK LIFE	DISK LIFE	DISK LIFE
0070	COUPLING-TURB SHAFT	51A617	CLDLDB7945	18024	13071	40000	10238	40000	0	15000	2495	42.23%	23108	23108	8665
0432	SHAFT ASSY-LPT	51A650-01	CLDLAS8735	50204	12999	40000	0	40000	7472	15000	4893	51.30%	19480	19480	7305
0434	SEAL AIR THRUST BLANCE	53M360	CLDLDR9190	10005	5527	20000	0	20000	0	15000	5527	36.85%			9473
0435	SEAL-AIR LPT OUTER	51M416	CLDLDY5293	10005	5527	20000	0	20000	0	15000	5527	36.85%	12630	12630	9473

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 Director
 Maintenance Management Department
 Japan Airlines Co., Ltd.

A/C Type: Boeing 777-346
MSN: 27654
DoM: OCT/2003

Registration: N819KW
Engine Designation: PW4090



ENGINE POSITION #2

Serial Number	P222107	Installation Date	28 JUN 2019	Manufacture	Pratt & Whitney
TSN	34,021.44	TSLSV	475	Model	PW4090
CSN	23,554	CSLSV	265	Thrust Rating	99,040 lbs
Status As Of	30 May 2022	LLP Limiter	3445 cyc / seal-air diffuser	Engine Control	FADEC

LLP REFER TABLE BELOW (GROUP A)

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Note : #-TSO/CSO only applicable to Module and Non-Life Limited Parts. *** - Life Calculation on Revised Life Limit ** - Life Calculation on Soft Life Limit * - Life Calculation on Hard Life Limit

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Japan Airlines Co.,Ltd
LIFE LIMITED PART CONTROL REPORT

ENGINE Model ENGINE S/No. TSN CSN TSLV CSLV
 PW4090 P222107 34022 23554 578 307

IIN	Nomenclature	P/N(Actual)	Serial No.	TSN	CSN	CYCLE USED		CYCLE USED		CYCLE USED		Method 2 with K			
						LIMIT	CYCLE	LIMIT	CYCLE	LIMIT	CYCLE	DISK LIFE	DISK LIFE	DISK LIFE	DISK LIFE
						PW4074	PW4074	PW4077	PW4077	PW4090	PW4090	PRORATED	PW4074	PW4077	PW4090
A0032	HUB-LPC	52B401	CBDUCK2322	18269	11040	20000	0	20000	0	15000	10043	66.95%	6609	6609	4957
A0033	DISK ASSY-LPC DRUM RTR	52B121-01	CBDUCK3109	18269	11040	40000	0	40000	0	15000	10043	66.95%	13218	13218	4957
B0181	DISK-HPC 5TH	55H805	YENCAH1396	18539	11555		0		0	15000	10701	71.34%			4299
B0183	HUB-HPC FRONT	51H572	CENCGY6597	14150	8179	20000	0	20000	0	15000	7297	48.65%	10270	10270	7703
B0184	DISK ASSY-DRUM RTR FR	55H206-01	GLDLDB6481	12983	8401		0		0	13100	8093	61.78%			5007
B0193	DISK ASSY-DRUM RTR RR	57H210-01	CENCDF0639	18615	7084		0		0	13000	7084	54.49%			5916
B0196	DISK-HPC 15TH	56H015	CENCDS3604	9940	3838		0		0	8000	3838	47.98%			4162
B0197	SHAFT-HPC REAR	55H200	CENCCD8708	18539	11555		0		0	15000	10701	71.34%			4299
B0201	SEAL-AIR DIFFUSER	56H192	CENCNT2882	13348	4547		0		0	15000	4547	30.31%			10453
B0241	SEAL-AIR DIFFUSER	55H869-001	CENCA81721	18539	11555		0		0	15000	11555	77.03%			3445
C0402	HUB-TURBINE FRONT	55L901	CKLBLU9795	6459	3594		0		0	13200	2989	22.64%			10211
C0403	SEAL-AIR HPT 1ST	50L959	CKLBKD8216	12139	4013		0		0	15000	4013	26.75%			10987
C0408	SEAL-AIR HPT 2ND	54L064	CKLBLS6905	6459	3594	15000	0	15000	0	15000	3594	23.96%	11406	11406	11406
C0420	HUB-HPT 2ND STG	53L402	CKLBML9229	1054	572		0		0	15000	572	3.81%			14428
C0423	PLATE-RING HPT 2ND BLD	50L242	CKLBL28205	5013	2744	16200	0	14780	0	9100	2744	30.15%	11315	10323	6356

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LIFE LIMITED PART CONTROL REPORT

ENGINE Model ENGINE S/No. TSN CSN TSLV CSLV
PW4090 P222107 34022 23554 578 307

IIN	Nomenclature	P/N(Actual)	Serial No.	TSN	CSN	CYCLE USED		CYCLE USED		CYCLE USED		Method 2 with K			
						LIMIT	CYCLE	LIMIT	CYCLE	LIMIT	CYCLE	DISK LIFE	DISK LIFE	DISK LIFE	DISK LIFE
						PW4074	PW4074	PW4077	PW4077	PW4090	PW4090	PRORATED	PW4074	PW4077	PW4090
D0472	SEAL-AIR LPT 3RD	53M013	CLDLDR1627	6459	3594		0		0	15000	3594	23.96%			11406
D0474	DISK-LPT 3RD	53M683	CLDLDG9202	6459	3594		0		0	15000	3173	21.15%			11827
D0479	SEAL-AIR LPT 4TH	53M014	CLDLDR1669	6459	3594		0		0	15000	3594	23.96%			11406
D0480	DISK-LPT 4TH	53M004	CLDLBF4499	6459	3594		0		0	15000	3173	21.15%			11827
D0488	SEAL-AIR LPT 5TH	53M015	CLDLC70867	35670	5350		0		0	15000	5350	35.67%			9650
D0489	DISK-LPT 5TH	53M005	CLDLBF5498	10967	6192		0		0	15000	5481	36.54%			9519
D0491	SEAL-AIR LPT 6TH	53M016	CLDLBG3099	6459	3594		0		0	15000	3594	23.96%			11406
D0494	DISK-LPT 6TH	53M006	CLDLBF6510	6459	3594		0		0	15000	3173	21.15%			11827
D0500	DISK-LPT 7TH	53M347	CLDLBF7520	6459	3594		0		0	15000	3173	21.15%			11827
D0502	SEAL-AIR LPT 7TH	53M017	CLDLBG4094	6459	3594		0		0	15000	3594	23.96%			11406
D0505	SEAL-AIR LPT 8TH	53M018	CLDLDM8536	6459	3594		0		0	15000	3594	23.96%			11406
D0506	DISK-LPT 8TH	53M008	CLDLBF8513	6459	3594		0		0	15000	3173	21.15%			11827
D0511	SEAL-AIR LPT 9TH	53M019	CLDLDM8573	6459	3594		0		0	15000	3594	23.96%			11406
D0512	DISK-LPT 9TH	53M009	CLDLBF9482	6459	3594		0		0	15000	3173	21.15%			11827

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LIFE LIMITED PART CONTROL REPORT

ENGINE Model	ENGINE S/No.	TSN	CSN	TSLV	CSLV
PW4090	P222107	34022	23554	578	307

IIN	Nomenclature	P/N(Actual)	Serial No.	TSN	CSN	PW4074		PW4077		PW4090		Method 2 with K			
						CYCLE LIMIT	USED CYCLE	CYCLE LIMIT	USED CYCLE	CYCLE LIMIT	USED CYCLE	DISK LIFE PRORATED	DISK LIFE PW4074	DISK LIFE PW4077	DISK LIFE PW4090
0070	COUPLING-TURB SHAFT	51A617	CLDLC15953	18539	11555	40000	0	40000	0	15000	10590	70.60%	11760	11760	4410
0432	SHAFT ASSY-LPT	51A650-01	CLDLAS8739	30845	13573	40000	0	40000	8792	15000	4020	48.78%	20488	20488	7683
0434	SEAL AIR THRUST BLANCE	53M360	CLDLC80962	6459	3594		0		0	15000	3594	23.96%			11406
0435	SEAL-AIR LPT OUTER	51M416	CLDLDY5312	6459	3594	20000	0	20000	0	15000	3594	23.96%	15208	15208	11406

This is to certify this data is true and accurate to the best of my knowlege.


 Director
 Maintenance Management Department
 Japan Airlines Co.,Ltd.

A/C Type: Boeing 777-346

Registration:

N819KW

MSN: 27654

Engine Designation:

PW4090

DoM: OCT/2003



Configuration Components

	Description	Manufacturer	Part Number	Remarks	QTY
Avionics					
22	Flight Director Computer	Rockwell Collins	822-0006-104	Autopilot Flight Director Computer	3
23	HF Radio Sys	Rockwell Collins	822-0330-001		2
23	SELCAL Decoder		NA138-714C		1
23	Solid State Cockpit Voice Recorder	Honeywell	980-6022-001	120 Minutes	1
23	VHF Transceiver	Rockwell Collins	822-1250-002		3
2350	Audio Control Panel	Avtech	5701-1-1		3
31	Solid State Flight Data Recorder	Honeywell	980-4700-042		1
34	ADF Receiver	Honeywell	822-5404-003		2
34	Air Data Inertial Reference Unit	Honeywell	HG2060AD01		1
34	ATC Mode 'S' Transponder	Rockwell Collins	822-1338-002		2
34	Transponder Control Panel	Gables engineering	G7131-04		1
34	Distance Measuring Equipment (DME)	Rockwell Collins	822-0329-001		2
34	Enhanced Ground Proximity Warning Computer	Honeywell	965-0976-003-222-222		1
34	FMS-CDU	Honeywell	4088240-901		3
34	Low Range Radio Altimeter Transceiver	Rockwell Collins	822-0334-002		3
34	MMR - Global Nav Landing ILS/GPS	Rockwell Collins	822-1821-002		3
34	TCAS Processor TCAS	Rockwell Collins	822-1338-002		1
34	VOR Navigation Receiver	Rockwell Collins	822-0297-001		2
34	Weather Radar Transceiver	Honeywell	066-50008-0408	Weather Radar Receiver/Transmitter	2
34	Mode Control Panel	Rockwell Collins	822-1494-103		
28	Fuel Quantity Processor Unit		0320KPU01		1
34	Satcom		7516118-27010		1
34	QAR		223330-03		1
23	Wi-fi (Cell Modem)	Panasonic	RD-AA8104-03		1

Asset Complete Spec.

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A/C Type: Boeing 777-346
MSN: 27654
DoM: OCT/2003

Registration: N819KW
Engine Designation: PW4090



Description	Manufacturer	Part Number	Remarks	QTY
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Configuration

				Description
				Configuration
1130	Cabin Placards and Markings		English	1
2520	Cabin Lay-Out TOTAL Passenger Seats - Current Operating	Not specified	Current	
2520	Passenger Seat – Double – First Class		83-221B7604-XX	
2520	Passenger Seat - Triple - Economy Class	KOITO IND	83-220B7606-XX	

Description	Manufacturer	Part Number	Remarks	QTY
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Configuration

2530	Galley A1	Jamco	JL7750-1	1
2530	Galley A2	Jamco	JL7750-1	1
2530	Galley A3	Jamco	JL7750-1	1
2530	Galley M1	Jamco	JL7721-11	1
2530	Galley M5	Jamco	JL7741-1	1
2530	Galley F1	Jamco	JL7710-21	1
2530	Galley F2	Jamco	JL7710-21	1
2530	Galley F3	Jamco	JL7710-21	1

LOPA

Asset Complete Spec.

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