

# TENDER NOTICE

Pakistan International Airlines Corporation Limited is pleased to invite the sealed bids for sale of **CF6-80 Special Tools (Qty 243)** on "As Is Where Is" basis. Bidders should bid for complete package of tools on prescribed forms. For additional information, please contact at [dce.ebd@piac.aero](mailto:dce.ebd@piac.aero). Tender forms including TORs, list of tools and terms of sale/purchase can be downloaded from PIA/PPRA websites:

[www.piac.com.pk/corporate/sales-procurement/tenders](http://www.piac.com.pk/corporate/sales-procurement/tenders)

[www.ppra.org.pk](http://www.ppra.org.pk)

## Terms & Conditions:

- Items are offered on "AS IS WHERE IS" basis.
- Prescribed tender forms (duly filled) should be submitted along with the processing fee receipt of PKR15,000/- (Non-Refundable) for local bidders or USD500/- (Non-refundable) for foreign bidders.
- The prices must be quoted in figure and words separately.
- Customs clearance for exporting, if required, out of Pakistan, transportation of the same from seller's location in Karachi and all associated costs, government duties/taxes etc will be the sole responsibility of bidders.
- The Bidders may inspect the items and the related records themselves or through their agent on or before 20-Oct-2020. Three copies of CNIC/Passport of the inspector should be submitted on or before 10-Oct-2020 for that.
- Bidders are required to send sealed tenders In "Single Stage Single Envelope Basis" addressed to GM Logistics Supply Chain Management Department (Store) Building, PIACL Head Office, JIAP Karachi-75200 by 21-Oct-2020. The tenders may be sent through courier or dropped in the tender box marked as "Tender Box Disposal Section" placed at the fore-mentioned address latest by 10:30 hours (PST) on the specified date.
- Tenders will be opened at 11:00 hours (PST), the same day (21-Oct-2020) in the presence of Bidders or their authorized agents, if they choose so.
- Successful bidder, upon notification, shall have to remit 25% of the bid amount within 10 business days. Remaining 75% amount is to be deposited within 30 business days of initial notification.
- Any addition, deletion or correction in any of the terms and conditions shall disqualify the bidder.
- PIACL reserves the right to reject all bids at any stage of tender proceeding subject to relevant provisions of PPRA Rule # 33.

Dy Chief Engineer (Engineering Business Development) Engineering Department Ispahani Hangar, JIAP Karachi-75200

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[Website: www.piac.com.pk](http://www.piac.com.pk)

**Tender Ref#: Tender/CF6-80 Special Tools/2020/01**

Dated: 18-Sep-2020

**Tender Fee (Non-refundable):**

**PKR 15,000 (For local Bidders)**

**USD 500 (For foreign Bidders)**

Printable at paper size: A4 page

### **INVITATION TO TENDERS**

**(Instructions to Bidders Must Read Carefully)**

M/s. \_\_\_\_\_

Subject: **Sale of Aircraft CF6-80 Special Tools**

PIACL is pleased to invite the sealed tenders for CF6-80 Special Tools listed in the attached Exhibit A on 'As is Where is' basis. Bidders can submit their offers for complete package of listed CF6-80 Special Tools. The offers must be made on the prescribed form (Exhibit B).

Tender TORs can also be accessed on following link:

[www.piac.com.pk/corporate/sales-procurement/tenders](http://www.piac.com.pk/corporate/sales-procurement/tenders)

Prospective bidders may contact at [dce.ebd@piac.aero](mailto:dce.ebd@piac.aero), for additional information if required.

Terms & Conditions of the tender are:

#### **A) PREPARATION OF BIDS**

Bids will be prepared on "Single Stage - Single Envelope" basis. All bidders must submit **one sealed envelope** on or before specified tender opening date/time with following documents:

- The Tender TORs, signed and stamped on all pages
- Tender Schedule (Exhibit B) duly filled, signed and stamped on every page.
- Banker's Cheque of PKR15,000/- (Non Refundable) for local bidders or USD 500 (Non Refundable) for Foreign Bidders as Tender Fee.
- Banker's Cheque (from any scheduled bank of Pakistan) of 5% of bid value as Earnest Money (Refundable/Interest Free) from Local bidders (**Foreign Bidders exempted**).

The bid will not be considered if complete information required is not given therein.

Authorized signatures of individual signing the bid and other documents connected with the contract must specify whether signing as:

- Sole Proprietor or his attorney.
- A registered active partner of the firm or his attorney.
- For the firm per procreation.
- As secretary, Manager, Partner, etc., or their attorney in case of firms registered under Partnership Act.

Sign & Seal of Bidder

- The Bidders must indicate whether their firm / company / organization etc is registered with PIA or not. If registered then specify PIA Registration number.

## **B) RATES AND PRICES**

- The Prices quoted must be net as per accounting unit as shown in the Tender Schedule (Exhibit B) exclusive of all duties / taxes and Government levies as applicable at the time of bidding.
- The Prices mentioned in the bid will be treated as firm till the completion of Contract.
- The Prices must be stated both **in words and figures** in PKR or USD. Additional information, if any, must be linked with entries on the Tender Schedule (Exhibit B).
- Foreign Bidders must bid in USD only. Local Bidders may bid in PKR as well. However one Bidder must bid in one currency only.
- Offers must be valid for 90 days. However the Bidder(s) may be requested to extend the validity of bids, in case of excusable delay.
- Rates must be written on PIA prescribed form attached as Tender Schedule, Exhibit B, otherwise Bids will not be entertained.
- Addition, deletion, correction, use of white fluid or over writing strictly not allowed otherwise tender may be out rightly rejected.
- For foreign bidders rates will be converted into local currency at the rate specified by PIA Finance at the date of bid opening & will be locked till completion of handing over of the tools.

## **C) SUBMISSION OF TENDER**

- You are required to send your sealed bids on **“Single Stage - Single Envelope Basis”** clearly mentioning **“Sale of CF6-80 Special Tools”** and addressed to **G.M Logistics Supply Chain Management (Store) Building, PIAC Head Office, JIAP Karachi-75200** by **21-Oct-2020**. The bids may also be dropped in the tender box marked as **“Tender Box Disposal Section”** placed at the entrance of the PIA Supply Chain Management (Store) Building at mentioned address, or sent through courier, latest by **10:30 hours** on the specified date.
- Bid should be sealed with Scotch Tape, Bidder’s signature and stamp affixed.
- Incomplete, tempered bids will not be considered.
- Bids received after stipulated date & time shall not be considered. The Corporation will not be responsible for any postal delays. The decision of PIACL in this respect shall be final and binding.
- The Bids should be accompanied by a 5% (five percent) of the total bid value having been deposited in terms of a Banker’s Cheque [from any scheduled bank of Pakistan] payable at Karachi in lieu thereof in the name of **M/s PAKISTAN INTERNATIONAL AIRLINES** as interest free **Earnest Money (Refundable)**. Earnest Money in any other shape shall not be accepted. Earnest Money deposited shall not be transferable as earnest money for any other tender. Bids without Earnest Money shall not be considered. **The Earnest Money is not required from Foreign Bidders.**
- Bids will be opened at **11:00 hours** the same day (**21-Oct-2020**) at Supply Chain Management (Store) Building. The Bidder(s) or their duly nominated representative(s) may witness the process, if desired so.

Sign & Seal of Bidder

**D) BID EVALUATION**

- Bids will be evaluated on offered prices.
- If bids are received in both currencies, i.e PKR and USD, rates will be converted into PKR, at the rate specified by PIA Finance on the date of bid opening, for bid evaluation purpose.

**E) ACCEPTANCE OF TENDER**

- Successful Bidder(s) will be notified about the same, through email. They shall have to remit 25% (twenty-five percent) Deposit within ten (10) business days of Notification, failing which PIACL may cancel/reject their offer(s).
- Remaining 75% amount is to be deposited within thirty (30) business days of Notification.

**PIA's Right to accept any Proposal and to reject any or All Proposals**

- PIACL reserves the right (without limitation to any other right whatsoever) to accept or reject any offer, or to annul the bidding process and reject all offers at any time prior to contract award without incurring any liability to the affected Bidder(s). PIACL shall communicate the grounds for its rejection of all bids, if requested; but is not required to justify those grounds.
- PIACL also reserves the right (without limitation to any other right whatsoever) to award the consolidated contract in its entirety to a single Bidder or to award it in parts to more than one Bidder without incurring any liability to the affected Bidder(s).
- Extend the date of opening (if deemed necessary).

**F) INSPECTION**

- Inspection shall be held on or before **20-Oct-2020**. Only those bidders shall be allowed to inspect the CF6-80 Special Tools who have purchased the tender documents from PIA.
- For inspection, the bidders should submit three (3) copies of CNIC/Passport of the inspector on or before **10-Oct-2020**.

**G) Bank Details**

**Account Title: PIAC MARKETING COLLECTION**  
**IBAN: PK31 HABB 0000480017871403**  
**SWIFT Code: HABBPCCA048**  
**Bank: HBL PIA Airport Branch Karachi**

Yours truly,  
*for Pakistan International Airlines*  
**Dy Chief Engineer (EBD)**

Encl:

1. List of Tools Exhibit A
2. Tender Schedule Exhibit B

Sign & Seal of Bidder

Tender No: Tender/CF6-80 Special Tools/2020/01  
 M/s. \_\_\_\_\_

Date:  
 Tender Schedule Exhibit B

**Subject: Quotation for the Purchase of Aircraft CF6-80 Special Tools**

<b>Description</b>	CF6-80 Special Tools		
<b>Currency</b>	PKR/USD (Cross out which is not applicable)		
<b>Serial#</b>	<b>Tool Part Number</b>	<b>Offered Purchase Price</b>	
		<b>In Figures</b>	<b>In Words</b>
1	<b>Per list attached as Exhibit A</b>		

Party Name:

\_\_\_\_\_

Address:

\_\_\_\_\_

Telephone No: \_\_\_\_\_ Fax No: \_\_\_\_\_

Email Address: \_\_\_\_\_

Seal & Signature:

\_\_\_\_\_

S. No.	Part No. / Item No.	Description of Tools	Quantity	Status
1	2C14011P02	Fixture, Build up - HPT Rotor	1	Serviceable
2	2C14014G01	Fixture, Lift - Compressor Rotor, Aft	1	Serviceable
3	2C14015G05	Bracket Set - CRF to Subassembly Stand	1	Serviceable
4	2C14025G04	Pusher Set, Races/Seals - HPT Rotor Stage 1	1	Serviceable
5	2C14025G05	Pusher Set, Races and Seals - HPT Rotor, Stage 1	1	Serviceable
6	2C14027G02	Puller, HPT Rotor/Dummy Shaft	1	Serviceable
7	2C14028G01	Pusher, HPT Rotor Dummy Shaft	1	Serviceable
8	2C14029G04	Puller - LPT Module	1	Serviceable
9	2C14030G04	Fixture, Lift and Turn – Core Module, Aft	1	Serviceable
10	2C14031G04	Truck, LPT Module (Horizontal)	1	Serviceable
11	2C14038G02	Lift Fixture - HPT Rotor, Aft	1	Serviceable
12	2C14040G05/G07	Wrench Spanner - Coupling Nut, HPT Rotor	1	Serviceable
13	2C14040G07/G08	Torque Adapter, Pressure Tube - Coupling Nut, HPT Rotor	1	Serviceable
14	2C14048G03	Stand, HPT Rotor - Vertical	1	Serviceable
15	2C14049G01	Truck, HPT Rotor - Horizontal	1	Non OEM Tool
16	2C14052G04	LPT Horizontal Lift and Turn Fixture	1	Serviceable
17	2C14061G03	Puller, No. 4 Bearing Aft Inner Race	1	Serviceable
18	2C14073G03	Adapter-Counter Torque	1	Serviceable
19	2C14084G01	Fixture, Install/Remove/Raise/ Lower Module	1	Serviceable
20	2C14092G03	Wrench, Starter - LPT Coupling Nut	1	Serviceable
21	2C14093G03	Wrench, Coupling Nut - Fan Mid Shaft	1	Serviceable
22	2C14094G05	Fixture, Seating Check - No. 4B Bearing and Seal	1	Serviceable
23	2C14096G02	Fixture, Seating Check LPTR	1	Serviceable
24	2C14103G01	Dummy – High Pressure Compressor Stator	1	Serviceable
25	2C14104G01	Fixture, Hold - Aft Inner Race, No. 4B Bearing	1	Serviceable
26	2C14105G01	Pilot - Fan Mid Shaft	1	Serviceable
27	2C14107G01	Horizontal Drive Shaft, Rmvl & Instn Tool	1	Serviceable
28	2C14113G01	Tool, Rmvl & Instn – Splined Adapter	1	Serviceable
29	2C14124G02	Fixture Seal / Pressurize, AGB	1	Serviceable
30	2C14130G05/G09	Fixture, Lift - Engine Assembly	2	Serviceable
31	2C14131G02	Tool, Inspect, Seating - HPTR	1	Serviceable
32	2C14132G02	FIXTURE LIFT LPTR &LPT MODULE VERTICAL	1	Serviceable
33	2C14133G03	LPT Rear Frame Guide	1	Serviceable
34	2C14138G01	Fixture, Removal - Mating Rings 1, 3, 7, and 8	1	Serviceable
35	2C14138G02	Fixture, Removal - Mating Rings 4 and 6	1	Serviceable
36	2C14165G01	Wrench Set – Low Pressure Turbine Rotor Disks	1	Serviceable
37	2C14176G05	Tool Set - Installation/Removal No. 5R Bearing	1	Serviceable
38	2C14178G01	Adapter, Pedestal - CRF AFT Flange	1	Serviceable
39	2C14186G02	Fixture, Lift and Turn, Core Module, Forward	1	Serviceable
40	2C14190G04	Pusher, Sump Closure - No. 5 Brg. and Mid Sump Seal	1	Serviceable
41	2C14193G03	Truck, HPT Module, Vertical	1	Serviceable
42	2C14198G02	Tool, Removal - Retainer, HPC Stage 1 Blade	1	Serviceable
43	2C14199G06 or G07	Fixture, Install/Remove – HPT Module Assembly	2	Serviceable
44	2C14203G01	Adapter, Pedestal - CRF	1	Serviceable
45	2C14204G02	Fixture, Lift - HPCR Spool/Shaft	1	Serviceable
46	2C14208G05 /G06	Stand, Assembly - LPT	2	Serviceable
47	2C14209G04	Dolly, Transport - LPT Module, Vertical	1	Serviceable
48	2C14219G01	Lift Fixture, Combustor Horizontal	1	Serviceable
49	2C14220G01	Fixture, Lift - HPT Module, Horizontal	1	Serviceable
50	2C14222G01	Fixture, Support - HPT Module, Horizontal	1	Serviceable
51	2C14224G02	ADAPTER SET , PEDESTAL LPT MODULE , FWD	1	Serviceable
52	2C14227G01/G02	Dolly, Subassembly - Frames	1	Serviceable
53	2C14229G02	Gage Set, Concentricity, CRF AFT Seals	1	Serviceable
54	2C14238G02	Tool Kit, Removal Thermal Shield Hook Bolts	1	Serviceable
55	2C14239G03	Fixture, Runout - HPT Rotor, Aft Flange	1	Serviceable
56	2C14261G01	Fixture, Alignment - HPT Impeller Cover	1	Serviceable
57	2C14276G01	Gage, Inspect - Fan Shaft to HPT Case	1	Serviceable
58	2C14602G03	Fixture, Locking – Low Pressure Turbine Rotor	2	Serviceable
59	2C14610G01	Pusher, Inner Race & Seal No. 6 Bearing	1	Serviceable
60	2C14612G02	Tool, Instn/Rmvl- Center Vent Tube Support	1	Serviceable
61	2C14614G01	Fixture Restrain – LPT Assembly AFT	1	Serviceable
62	2C14618G02	Puller, Sump Closure and Mid Sump Seal	1	Serviceable
63	2C14620G01	Fixture, Lift/Turn - Fan Booster, Rotor Fwd	1	Serviceable
64	2C14629G01 /G02	Fixture, Lift, Fan Rotation	1	Serviceable

65	2C14633G01	Fixture, Lift/Turn - Fan Rotor, Aft	1	Serviceable
66	2C14635P02	Adapter, Motoring Core Engine	1	Serviceable
67	2C14636G01	Fixture, Restraining - LPT, Aft (TRF Removed)	1	Serviceable
68	2C14637G01	Wrench, Spanner Nut - No. 2 Bearing Inner Race	1	Serviceable
69	2C14639G01	Removal Tool, Magnetic Carbon Seal	1	Serviceable
70	2C14641G01	Clips, Retaining – LPT Shroud	1	Serviceable
71	2C14642G01	Puller, No. 2 Brg. Inner Race and N1 Speed Sensor	1	Serviceable
72	2C14643G01 / G02	Bracket Set, AGB - Module/Sub- Assembly Stand	1	Serviceable
73	2C14644G02/G03	Fixture, Remove/Install - Module	2	Serviceable
74	2C14645G01/G02	Fixture, Lift - Accessory Drive Module	1	Un Serviceable
75	2C14646G01	Puller, No. 6 Bearing Inner Race and Seal	1	Serviceable
76	2C14647G01	WRENCH, RETAINER NUT - NO. 6 BEARING OUTER RACE	1	Serviceable
77	2C14648G01	Puller, No.1 Bearing & A/O Seal	1	Serviceable
78	2C14649P04	FIXTURE, MOTORING - CORE ENGINE	1	Serviceable
79	2C14650G01	No. 6 Bearing Wrench-Retainer Nut	1	Serviceable
80	2C14651G01	B/U HPC Rotor (Part of 2C14659)	1	Serviceable
81	2C14653G01	Bracket, TRF to Assembly Stand	1	Serviceable
82	2C14654G01	Fixture, Lift - LPT Stage 5 Disk	1	Serviceable
83	2C14655G01	Wrench Set – Torx, LPT Interstage Seals/Nozzles	1	Serviceable
84	2C14656G02	Gage, Concentricity-TRF	1	Serviceable
85	2C14659G01	Build up, HPC Rotor (2C14651, 2C6629)	1	Serviceable
86	2C14660G02	Pre-bender, Retainers	1	Serviceable
87	2C14661G01	Fixture, Pilot - Guide - CRF Install and Remove	1	Serviceable
88	2C14664G01	Wrench Set, No. 5R Bearing Inner Race Nut	1	Un Serviceable
89	2C14665G02	Tool Set - Instn/Rmvl 4R Outer Race and Nut	1	Serviceable
90	2C14666G01	Tool Set – Instn /Removal 4B Brg. Outer Race	1	Serviceable
91	2C14667G01	Pusher, 4R I/R - Seal - 4B Fwd/Aft I/R and Seals	1	Serviceable
92	2C14668G01	Fixture, Assembly, LPT Nozzle - Stage 1	1	Serviceable
93	2C14669G02	Puller, 4R Inner Race/Seal and 4B Fwd Inner Race	1	Serviceable
94	2C14670G01	Wrench - 4R Bearing Inner Race Retainer nut	1	Un Serviceable
95	2C14671G02	Wrench - Spanner Nut No. 4B Bearing	1	Serviceable
96	2C14672G03	Fixture, Lift - HPT Rotor Fwd	1	Serviceable
97	2C14673G04	TOOL SET - ACCESSORY, INLET AND TRANSFER GEARBOX	1	Serviceable
98	2C14673G08	Tool Set – Accessory, Inlet and Transfer Gearbox	1	Serviceable
99	2C14674G02	Wrench, Bumper Bearing Retainer	1	Serviceable
100	2C14675G02	Support, Sump Housing-CRF Aft	1	Serviceable
101	2C14675G03	Support, Sump Housing - CRF Aft (Alternate)	1	Serviceable
102	2C14676G01 / G02	Fixture, Installation / Removal - Outer Air Tube, Stage 1 Nozzle	1	Serviceable
103	2C14678G01	Tool Set, Removal - Retainer, LPTR Blade	1	Serviceable
104	2C14679G01	Sleeve, Retainer - 4B Bearing Stack-up	1	Serviceable
105	2C14680G01	Puller, HPCR Manifold (Use with Config. 01 Rotor)	1	Serviceable
106	2C14681G02	Gage Set - Concentricity - CRF	1	Serviceable
107	2C14682G04	Closure Set - Leak Check - Lube System	1	Serviceable
108	2C14684G02	Tool Set, Removal HPCS Vane Springs	1	Serviceable
109	2C14685G01	Adapter, Anti-Torque - Fan Stator to Fan Disk	1	Serviceable
110	2C14686G05	Adapter, Lift - Low Pressure Compressor	1	Serviceable
111	2C14688G04 /G05	Puller, Races and Seals - HPT Rotor Stage 1	1	Serviceable
112	2C14689G01	Adapter, Combustor Lift Fixture	1	Serviceable
113	2C14691G01	Fixture, Removal/Installation, Combustor Liner	1	Serviceable
114	2C14693G01	Guide Set, Installation/Removal – LPT Module	1	Serviceable
115	2C14694G01	Puller, Heat Shield 4R Stationary A/O Seal	1	Serviceable
116	2C14695G01	Adapter Lift - Stage 1 HPT Nozzle	1	Serviceable
117	2C14696G01	Fixture, Assembly - Stage 1 HPT Nozzle	1	Serviceable
118	2C14697G03	Tool, Rigging - Variable Bypass Valve Doors	1	Serviceable
119	2C14698G01	PULLER NO 2 ROLLER BRG	1	Serviceable
120	2C14699G01	Fixture, Lift - Upper Compressor Stator Case	1	Serviceable
121	2C14702G01	Fixture, Assembly - HPT Nozzle, Stage 2	1	Serviceable
122	2C14703G01 /G02	Adapter, Lift - HPT Nozzle, Stage 2	1	Serviceable
123	2C14704G05 /G06	Tool Set, Dummy Shaft - HPT Rotor	1	Serviceable
124	2C14704P03	Master Coupling Nut	1	Serviceable
125	2C14712G01	Fixture, Position - Horizontal Drive Housing	1	Serviceable
126	2C14714G02	Fixture, Torque/Restraint - Stage 2 HPT Nozzle	1	Serviceable
127	2C14717G01	Adapters, Fan Stator Case Forward Flange	1	Serviceable
128	2C14718G02	Puller/Pusher, Air Tubes - Stage 2 HPT	1	Serviceable
129	2C14722G01	Fixture, Runout - Fan Stator, Assembled Engine	1	Serviceable
130	2C14726G04	Adapter, Pedestal - Engine, Forward	1	Serviceable

131	2C14727G01	Removal Tool, Stage 1 Shrouds	1	Serviceable
132	2C14730G01	Adapter Set, Pedestal -CRF	1	Serviceable
133	2C14731G01	Fan Assembly Support Brackets	1	Serviceable
134	2C14731G02	BRACKET SET, SUPPORT - AFT FAN MAINTENANCE UNIT	1	Serviceable
135	2C14733G01	Removal Tool, Magnetic Carbon Seal	1	Serviceable
136	2C14736G01	Fixture, Lift - Fan Module	1	Serviceable
137	2C14737G01	Adapter, Lift - Aft Stator/Frame, Horizontal	1	Serviceable
138	2C14738G01	ADAPTER SET, INSTALL/REMOVE -STAGE 1 FAN DISK NUTS	1	Serviceable
139	2C14740G01	Puller, Stationary Air/Oil Seal - No. 1 Bearing	1	Serviceable
140	2C14740P08/G01	#1 BREARING A/O SEAL PULLER	1	Serviceable
141	2C14742G03	Stand, Horizontal - Fan Assembly	1	Serviceable
142	2C14743P02	Dummy Race - No. 4R Bearing	1	Serviceable
143	2C14744G01	Retainer - 4B Ball Cage	1	Serviceable
144	2C14745G01	Tool Installation, Wear Sleeve, HDS Housing	1	Serviceable
145	2C14749G01	Puller, No.3 Bearing Air Seal and Housing	1	Serviceable
146	2C14751G01	Fixture, Lift - Forward Fan Case	1	Serviceable
147	2C14758G01	Tool Set - LPT Stage 1 and 2 Disk Bolts (Balance Weights)	1	Serviceable
148	2C14762G01	Fixture, Holding - Rotor/Stator LPT - Split Engine	1	Serviceable
149	2C14766G01	Fixture Clamp, HPT Rotor Disks	1	Serviceable
150	2C14767G01	Gauge, Clearance Check - 4R/4B, Lube Nozzles	1	Serviceable
151	2C14769G03	Tool Set, Fan-Rotor Nut	1	Serviceable
152	2C14771G01	Fixture, Lift/Turn – LPT Module, Aft	1	Serviceable
153	2C14772G01	Fixture, Clamping – Stage 1 LPT Shroud	1	Serviceable
154	2C14775	FIXTURE, RUN ON TORQUE - CENTER VENT TUBE SUPPORT NUTS	1	Serviceable
155	2C14776G01	Installation Tool, Magnetic Carbon Seal	1	Serviceable
156	2C14778G01	Fixture, Tube Positioning	1	Serviceable
157	2C14779G02	Tool Set, Alignment Comp. Stator Horizontal. Flange	1	Serviceable
158	2C14780G01	Adapter, Pedestal –CRF	1	Serviceable
159	2C14783G03	Holding Fixture	1	Serviceable
160	2C14784G01	Puller, Aft Outer Air Seal, HPT Rotor	1	Serviceable
161	2C14785G01	Puller, Aft Air Seal Subassembly, HPT Rotor	1	Serviceable
162	2C14792G01	Puller, No. 6 Plug (SB 72-095)	1	Serviceable
163	2C14811G01	Puller, Flame Arrestor	1	Serviceable
164	2C14816G01	Retaining Ring	1	Serviceable
165	2C14818G01	Fixture Assembly, Restraining HPTN Support Stg. 1	1	Serviceable
166	2C14827G01	Adapter Set, Pedestal - Engine Aft	1	Serviceable
167	2C14856G01	Spanner Adapter Set, Airtube Nuts	1	Serviceable
168	2C14869G01	Pusher, HPT Rotor/Dummy Compressor Rotor	1	Serviceable
169	2C14875G01	Protector, Compressor Rear Frame Outer Aft Flange	1	Serviceable
170	2C14883G01	Puller, Outer Race - No. 6 Bearing	1	Serviceable
171	2C14902G01	Stand, Balance - Buildup, LPT	1	Serviceable
172	2C14902G04	STAND, BALANCE BUILD UP - LOW PRESSURE TURBINE MODULE	1	Serviceable
173	2C14903G01	Adapter, Force Balance - Stage 3-9 Aft/11-14 Spool Forward	1	Serviceable
174	2C14905G01	Adapter, Force Balance - Stage 10 HPCR	1	Serviceable
175	2C14906G01	PULLER, DRIVE ADAPTERS - ROTOR BALANCING	1	Serviceable
176	2C14908G01	Drive Adapter, Balance - HPCR Assembly	1	Serviceable
177	2C14909G01	Support, Balance Buildup - HPCR Spools	1	Serviceable
178	2C14914G01	Tool Set, Balance - HPT Rotor	1	Serviceable
179	2C14916G01	Shroud, Dynamic Balance 3-9 Spool	1	Serviceable
180	2C14917G01	Shroud, Balance Machine	1	Serviceable
181	2C14920G02	TOOL SET, BALANCE - HIGH PRESSURE TURBINE ROTOR	1	Serviceable
182	2C14922G02	Adapter, Balance LPT Module, Belt Drive	1	Serviceable
183	2C14925G01	Tool Set, Balance - HPT Rotor	1	Serviceable
184	2C14926G01	ARBOR, BALANCE - FAN ROTOR	1	Serviceable
185	2C14928G02	SHROUD, BAL -FAN ROTOR WITHOUT STG 1 BLADES	1	Serviceable
186	2C14929G01	DOLLY, INSTALLATION - FAN ROTOR/BALANCE ARBOR WITHOUT STG 1 BLADES	1	Serviceable
187	2C14930G01	FIXTURE, LIFT AND TURN - FAN ROTOR ASSEMBLY	1	Serviceable
188	2C15600G01	Fixture, Position Compressor Rear Frame Sump	1	Serviceable
189	2C18053G02	Tool Installation, Self-Wrenching Bolts - HPT	1	Serviceable
190	2C6010G05	Guide, Fan Shaft Assembly - Removal and Installation	1	Serviceable
191	2C6011G02	Sling, Lift - Fan Mid-Shaft	1	Serviceable
192	2C6016G04	Fixture, Vertical Lift Compressor Stator Half	1	Serviceable
193	2C6018G01	Tool Set, Holding - VSV	1	Serviceable
194	2C6019G03	Driver Set, HPC Stator Vane	1	Serviceable
195	2C6031G02	Fixture, Lift - HPCR Stages 3-9 Spool	1	Serviceable
196	2C6075G03	Protector, Fan Disk Bore - Stage 1	1	Serviceable



197	2C6120G02	Pusher - Inner Race - Spacer - Air and Oil Seal - No. 1 Bearing	1	Serviceable
198	2C6120P03/G02	PUSHER INNER RACE SPACER A/O SEAL	1	Serviceable
199	2C6122G02	Fixture, Install/Remove, Bolts - Forward Fan Shaft	1	Serviceable
200	2C6122G03	FIXTURE REMOVE/INSTALL BOLTS FWD FAN SHAFT	1	Serviceable
201	2C6164G01	Tool Set, Jack Screws	1	Serviceable
202	2C6171G02	Holder Set - VSV	1	Serviceable
203	2C6178G13	Vane Angle Locating Tool - VSV	1	Serviceable
204	2C6217G03	ALTERNATE (2C14227G01) Sub Assembly Stand	1	Serviceable
205	2C6238G03/G04	Sling Lift Turnover - HPT Rotor Stage 2 Disk	2	Serviceable
206	2C6238G04	Sling, Lift and Turnover – LPTR Disks Stg. 1, 2, 3, and 4	1	Serviceable
207	2C6265G02	Wrench, Spanner Nut - No. 1 Bearing Inner Race	1	Serviceable
208	2C6339G05 or G06	Support - Engine Handling (Pedestal Stand)	1	Serviceable
209	2C6350G03	Fixture, Lift - Fan Frame, Aft	1	Serviceable
210	2C6487G05	Protractor, Electronic - VSV Portable, 4-Channel	1	Serviceable
211	2C6488G01	PARTS OF VSV RIGGING TOOL	1	Serviceable
212	2C6532G02	Stand, Storage - Core Engine Vertical (storage stand)	1	Serviceable
213	2C6599G01	Tool, Pre-Bender, Retainer Stop - HPCR Blades	1	Serviceable
214	2C6600G03	Tool, Tab Bender – High Pressure Compressor Stage 1 Blade, Retainer Stop	1	Serviceable
215	2C6629G01	Pylon, Indicator - Compressor Rotor Buildup	1	Serviceable
216	2C6645G02	Puller, Vane Arm and Vane Spacer	1	Serviceable
217	2C6647G01	Wrench, Spanner - VSV (Stage 5)	1	Serviceable
218	2C6649G02	Tools, Nut Starting - HPCR	1	Serviceable
219	2C6671G04	PULLER FWD FAN/FAN MID SHAFT	1	Serviceable
220	2C6800G02	Eye, Lift - HPC Fwd	1	Serviceable
221	2C6803G01	Protector, Compressor Forward Shaft, Fan Mid Shaft	1	Serviceable
222	2C6805G02	Wrench, Spanner Nut - No. 3 Bearing	1	Serviceable
223	2C6815G01	Puller, Inner Race - No. 3 Bearing	1	Serviceable
224	2C6823G01	Puller, Manifold No.1 Bearing	1	Serviceable
225	2C6833G05	Wrench, Coupling Nut - Fan Maintenance Unit/Fan Mid Shaft	1	Serviceable
226	2C6836G01	PUSHER INNER RACE NO.2 BRG	1	Serviceable
227	2C6856G04	Fixture, Lift - Fan Rotor and Low Pressure Compressor	1	Serviceable
228	2C6894G04	Tool, Removal - Fan Spinner	1	Serviceable
229	2C6925G02	Gage Set - VSV Clevis Assembly	1	Serviceable
230	2C6934G04	Fixture, Leak Test	1	Serviceable
231	2C6937G08	ADAPTER, TORQUE, SET - COMPRESSOR ROTOR	1	Serviceable
232	2C6962G03	Gage, Sight - VSV Lever Arms	1	Serviceable
233	2C6964G04	Wrench, Torque Breaking, Compressor Stator Actuation Arm Retaining Nut	1	Serviceable
234	2C6966G05	Gage Set-Compressor Stator Actuating Arms	1	Serviceable
235	2C6967G06/G08	Tool, Installation - HPCR Stage 2 Blade, Retainer	1	Serviceable
236	2C6987G03	Fixture, Runout – Fan Stator Case	1	Serviceable
237	2C8008G01	Fixture, Remove - Fan Stator Fairing	1	Serviceable
238	2C8073G04	Fixture, Preload - Stage 1 Fan Blade Spacer	1	Serviceable
239	9480M17G01	Puller, Bearing 6	1	Serviceable
240	9480M17G02	Puller, Bearing 1, 3, 5, 8	1	Serviceable
241	9480M17G03	Puller, Bearing 2, 4, 7	1	Serviceable
242	9480M17G04	Puller, Bearing 9	1	Serviceable
243	MSE-53	Lift Sling	1	Serviceable